TYLER JUNIOR COLLEGE

TYLER, TEXAS

Annual Catalogue

1959-1960

with

Announcement of Courses

1960-1961

TYLER JUNIOR COLLEGE

EAST FIFTH STREET

\+ +

ANNUAL CATALOG

1959 - 1960

WITH

ANNOUNCEMENTS FOR

1960 - 1961

\+ +

TYLER, TEXAS

GENERAL COLLEGE CALENDAR

1960 - 1961

\+ +

ADVANCE REGISTRATION

The administrative offices are open throughout the summer for advance registration. Thorough and leisurely counseling is available on degree plans and technical courses and vocations. Students may come from 8 a. m. until 3 p. m. Mondays through Fridays.

FALL SEMESTER, 1960

September 7, 8, 9	Final Registration and Orientation
September 12	Classes Begin
November 24, 25	Thanksgiving Holidays
December 19	First Christmas Holiday
January 3	Classes Resumed
January 17-24	Fall semester final examinations

\+

SPRING SEMESTER, 1961

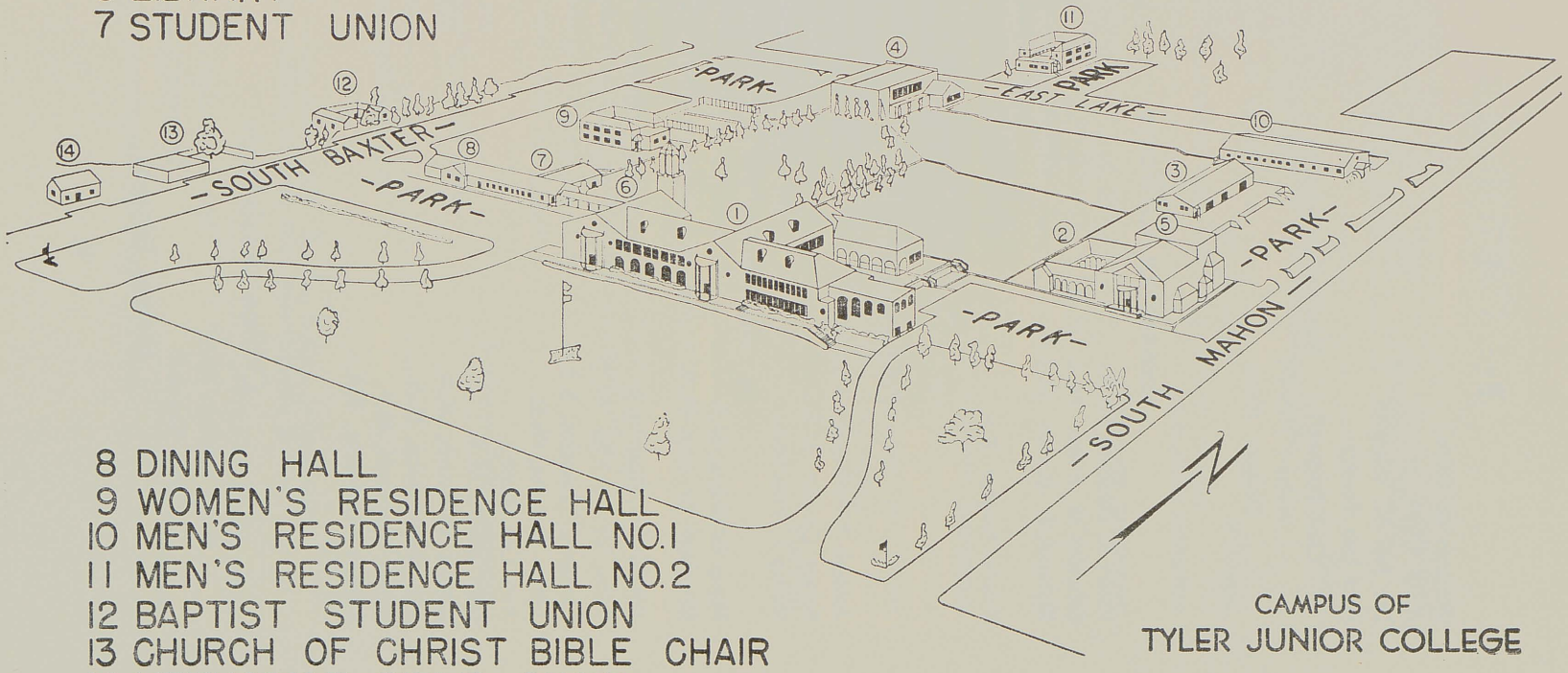
January 25, 26, 27	Registration for Spring Semester
January 30	Classes Begin
March 31-April 3	Easter Holidays
May 22-29	Final Examinations
May 26	Baccalaureate Service
June 2	Commencement

\+

SUMMER SESSION, 1961

June 5, 6, 7	Registration
June 8	Classes Begin
July 4	Holiday
July 19	First Term Ends
July 21	Registration for second term
July 24	Classes Begin
September 1	Second term ends

1 MAIN
2 FINE ARTS
3 TECHNOLOGY
4 GENTRY GYMNASIUM
5 WISE AUDITORIUM
6 LIBRARY
7 STUDENT UNION



8 DINING HALL
9 WOMEN'S RESIDENCE HALL
10 MEN'S RESIDENCE HALL NO.1
11 MEN'S RESIDENCE HALL NO.2
12 BAPTIST STUDENT UNION
13 CHURCH OF CHRIST BIBLE CHAIR
14 METHODIST BIBLE CHAIR

CAMPUS OF
TYLER JUNIOR COLLEGE

Board of Trustees

Watson W. Wise ..... President
A. D. Clark, Jr. ..... First Vice-President
Dr. Jim M. Vaughn ..... Second Vice-President
Ava Lea Gentry ..... Secretary

Cecil Bagwell — Mrs. Arthur Squyres — J. Paul Price
Hubert Tunnell — Ira Hildebrand
George Pirtle — Homer W. Eikner

* * * *

Executive Officers

Harry E. Jenkins, Ph.D. ..... President
Edward M. Potter, M.A., LL.D. ..... Dean
Richard H. Barrett, M.B.A. ..... Administrative Assistant-Business Manager
Edwin Fowler, B.A. ..... Registrar

* * * *

Department Heads

Joseph Kirshbaum, Mus.M. ..... Music
Forest Griffin, M.S. ..... Technical Education
Irving L. Friedman ..... Dean of the Evening College and Coordinator of Distributive Education
Mary Wallace, M.A. ..... Counseling and Guidance
Elizabeth Bryarly, M.A. ..... Dean of Women (Counselor), English
Mildred Stringer, B.S. ..... Student Activities (Counselor)
Wiley W. Jenkins, Ph.D. ..... History and Social Science
Louise Clinkscales, B.B.A. ..... Business and Secretarial Training
Jeane Browne, Ph.D. ..... Public Speaking and Dramatics
Ava Lea Gentry ..... Personnel
Troy Smith, LL.B. ..... Attorney
Mabel Williams, M.A. ..... Mathematics
J. C. Henderson, M.A. ..... Science
Floyd Wagstaff, M.A. ..... Athletics and Physical Training
Evelyn McManus, B.A. ..... Librarian

* * * *

Office Assistants

Mary Kathlyn Neill — Linda Hicks
Audrey Gambill — Lougene Wilson
Maxene Robinson

FACULTY

Harry E. Jenkins.....President
B.S., Kansas State Teachers College; M.A., The University of Missouri; Ph.D., The University of Texas

Edward M. Potter.....Dean
B.A., The University of Texas; M.A., The University of Texas; LL.D., East Texas Baptist College.

Johnny Abbey.....(on leave).....Business
B.B.A., The University of Texas; M.B.A., The University of Texas

Margaret Anders.....Assistant Librarian

Prudence Arnold.....Physical Education
B.S., North Texas State College.

Drucilla Bain.....Art
A.B., Georgetown College.

James F. Barnes.....Government, Economics
B.A., Mississippi College; M.A., The University of Mississippi.

Richard Barrett.....Business Manager, Business Administration
B.B.A., East Texas State College; M.B.A., Agricultural and Mechanical College of Texas.

Beth Banks.....Nursing
B.S., University of Texas.

Floyd G. Betts, Jr.....X-Ray Technology
B.S., Southwestern University; M.D., The University of Texas.

Jack W. Betts.....Engineering Drawing, Drafting
B.S., East Texas State College; M.Ed., East Texas State College.

Lawrence Birdsong, Jr.....Speech, Drama
B.A., Baylor University.

Gene Blakely.....Business Administration
B.B.A., North Texas State College.

A. L. Blanton.....English
B.S., M.S., Stephen F. Austin State College.

Jean Browne.....Speech
B.A., Mt. Holyoke College, B.A., Carnegie Institute of Technology, M.F.A., The University of Texas, Ph.D., State University of Iowa.

B. T. Bryant.....Physics, Engineering
B.S., M.S., East Texas State College.

Elizabeth Bryarly.....Dean of Women
B.A., Baylor University; M.A., The University of Texas.

FACULTY (Continued)

Julius Buchanan ..... Petroleum Technology
B.S., The University of Texas.

Louise Clinkscales ..... Business
B.B.A., Baylor University.

Paul Cox ..... Music
B.M., M.M., Northwestern University.

Herman L. Crow ..... History
B.S., M.S., North Texas State College.

Sister Mary Consilia, R. T. ..... X-Ray Techniques
St. Mary's Hospital

Eileen DeDea ..... Business
B.B.A., University of Minnesota; M.A., University of New Mexico.

Kenneth Evans ..... Mathematics
B.A., East Texas State College; M.A., The University of Texas.

Lena Exum ..... English
B.A., Mississippi State College for Women; M.A., University of New Mexico.

Grady Faulk, Jr. ..... History
B.A., M.A., Stephen F. Austin State College.

J. J. Faust ..... X-Ray Technology
A.B., Hendrix College; B.S., The University of Arkansas; M.D.,
The University of Arkansas.

Pinckney Ferrell ..... Music
B.M., St. Louis Institute of Music.

James Fife ..... Director, Church of Christ Bible Chair
B.A., Abilene Christian College.

Frances Flaherty ..... (on leave) ..... Business
B.S., Texas State College for Women.

Edwin Fowler ..... Registrar, Psychology, Sociology
B.A., Baylor University.

Irving L. Friedman ..... Distributive Education
Distributive Education Certificate.

John H. Garner ..... Mathematics
B.S., M.S., Texas Technological College.

Averille Greenhaw ..... Home Economics
B.S., Agricultural and Mechanical College of Oklahoma.

FACULTY (Continued)

George Griffin ..... Business
B.B.A., Southern Methodist University.

Forest Griffin ..... Vocational Education
B.S., East Texas State College; M.S., East Texas State College.

Francis L. Haley ..... Geology
B.A., University of Maine; M.S., Florida State University.

Joan Haley ..... Nurse
Registered Nurse

James L.Hallmark ..... Assistant Director of Physical Education
B.S., Agricultural and Mechanical College of Texas;
M.A., Stephen F. Austin State College.

J. C. Henderson ..... Biology, Chemistry
B.A., Rice Institute; M.A., The University of California.

Mary Hickman ..... X-Ray Technology
R.T., Mother Frances Hospital School for X-Ray Technicians.

Richard A. Hill ..... Accounting
A.B., M.A., WoodstockCollege; M.B.A., Seton Hall University.

Charles M. Hix, Jr. ..... Physics
B.S., M.S., Agricultural and Mechanical College of Texas.

John R. Hunter ..... Music
B.S., University of Alabama; M.A., Teachers College, Columbia University.

Gloria Jackson ..... History
B.A., Texas Christian University; M.A., Southern Methodist University.

Wiley W. Jenkins ..... History, Government
B.A., The University of Mississippi; Ph.D., The University of Texas.

Mildred Kincaid ..... Nursing
Registered Nurse.

Joseph Kirshbaum ..... Music
Mus.B., Yale University; Mus.M., Yale University.

Gertrude Kirshbaum ..... Music
Diploma in Music, Yale University.

James N. Lewis ..... Economics
B.S., North Texas State College.

Kenneth Lewis ..... Agriculture
B.S., Agricultural and Mechanical College of Texas.

FACULTY (Continued)

James Liles ..... Business English
B.B.A., M.B.A., East Texas State College.

James C. Linn ..... Business
B.B.A., North Texas State College; M.Bus.Ed., North Texas State College.

Doris Meadows ..... Nursing
Registered Nurse.

Daniel McCalib ..... English
B.A., B.J., The University of Texas; M.A., University of Southern California.

Judith McCalib ..... French, Spanish
B.S., M.A., University of Alabama.

Evelyn Cooke McManus ..... Librarian
B.A., Southwestern University.

Allye Martin ..... English
B.S., North Texas State College; M.S., East Texas State Teachers College.

Paul Miller ..... Auto Maintenance
Technical Expert.

H. F. Mills ..... History, English
B.A., M.A., Rice Institute.

William Mullins ..... Personal Finance
B.B.A., North Texas State College; M.B.A., The University of Texas.

J. P. Mullowney ..... Applied Laboratory Techniques
B.S., Loyola University; M.D., Loyola University.

James Murray, Jr. ..... English
B.A., Baylor University; M.A., The University of Texas.

Virginia O'Byrns ..... Nursing
Registered Nurse.

Luke Patrenella, Jr. ..... English
B.A., M.J., The University of Texas.

David Pena ..... Surveying
Licensed Civil Engineer and Land Surveyor.

Clarence M. Petty ..... Industrial Petroleum Chemistry
B.S., Baylor University.

Charles D. Pickens, Jr. ..... Real Estate
B.B.A., Texas Technological College.

FACULTY (Continued)

Ray Pickering ..... X-Ray Technology
R.T., St. Paul's Hospital, Dallas, Texas.

Myra Potter ..... Art
B.S., Texas State College for Women.

Blanche Prejean ..... English, Journalism
B.A., Texas Wesleyan College; M.A., Stephen F. Austin State College.

Arthur M. Pry ..... Bible
B.A., Southwestern University; B.D., Yale University.

Allen E. Pye ..... Insurance and Business Law
L.L.B., Southern Methodist University.

Robert Reynolds ..... Piano

Herbert Richardson ..... Physical Education
B.S., The University of Houston.

Ernest Roberts ..... Psychology
M.S., East Texas State College.

Tom Robinson ..... Geography
B.A., M.A., The University of Oklahoma.

Agnes Roy, R.N. ..... Nursing
B.S., The University of Houston.

Leo Rudd ..... Religion, Baptist Bible Chair
B.A., William Jewell College.

John B. Saleh, Jr. ..... Business Administration
B.B.A., East Texas State College; M.B.A., North Texas State College.

Isaac C. Sanders ..... Mathematics
B.A., Rice Institute; M.A., The University of Texas.

Eva Saunders ..... Education
A.B., Baylor University; M.A., The University of Texas.

Joseph Selman ..... X-Ray Physics
B.S., Rensselaer Polytechnic Institute; M.D., Western Reserve Medical School.

Richard Schaefer ..... Electrician Apprentices
Technician.

Rex Smith ..... English
B.A., Hardin-Simmons University; M.A., The University of Texas.

FACULTY (Continued)

Neva Smith ..... Business
B.B.A., The University of Texas.

Walter Smith ..... Radio-Television
FCC Licensed Radio - Television Engineer.

Sammie Smyrl ..... Mathematics
B.A., East Texas State College; M.A., The University of Texas.

Etta M. Spivey ..... English, Business
B.S., Mary Washington College.

William Steger ..... Oil and Gas Law
L.L.B., Southern Methodist University.

George Stiles ..... Biological Science
B.S., Sam Houston State College; M.A., Colorado State College of Education.

Floyd G. Stoddard ..... English
B.A., M.A., The University of Texas.

Ethel Stokes ..... Director, Women's Residence Hall

Mildred Stringer ..... Counselor
B.S., East Texas State College.

James M. Taylor ..... Shorthand
B.A., The University of Texas; M.S., North Texas State College.

J. W. Tyner ..... Business Law
B.B.A., L.L.B., Baylor University.

Floyd Wagstaff ..... Director of Physical Education
B.S., Stephen F. Austin State College; M.A., North Texas State College.

Mary Yeager Wallace ..... Director of Guidance
B.A., Hardin-Simmons University; M.A., The University of Texas.

Mabel Williams ..... Mathematics
B.A., The University of Texas; M.A., The University of Texas.

Sarah Willis ..... Spanish
B.A., East Texas State Teachers College.

P. D. Wilmeth ..... Bible
B.A., Abilene Christian College; M.A., Columbia University.

Dorothy Winfield ..... Nursing
B.S., Northwestern State College of Nursing.

Mary Wood ..... Government, History
B.A., M.A., Baylor University.

THE HISTORY AND DEVELOPMENT OF TYLER JUNIOR COLLEGE

The original Tyler Junior College was established in 1926 as a part of the Tyler Public School System. It operated under this plan with a small enrollment until September 1, 1946.

On November 13, 1945, the voters established a new, independent Tyler Junior College District, authorized a tax levy for the support of the college, and authorized a bond issue for the erection of a new college plant on its own 40-acre campus, separating it from the public school system on September 1, 1946.

Since then the Tyler Junior College District has been enlarged and extended by eight neighboring school districts which voted to become a part of the College District for junior college purposes only. The present Tyler Junior College District is now composed of the following districts:

The Tyler Independent School District.
The Winona Consolidated Rural High School District No. 67.
The Chapel Hill Independent School District.
The Lindale Independent School District.
The Rice Consolidated Common School District No. 13.
The Dixie Rural High School District No. 5.
The Swan Consolidated Common School District No. 60.
The Pine Springs Common School District No. 48.
Flint Common School District No. 18.

The College is operated under statutory authority by its Board of Trustees, composed of ten members. Its enrollment has increased from less than 200 students to a head count of more than 2,000 students annually in all divisions. Students residing in the Tyler Junior College District are entitled to priority in enrollment. Others are admitted if facilities are available, but the College reserves the right to limit the enrollment of students residing outside the Tyler Junior College District whenever in its judgment facilities are not available for additional students.

GENERAL INFORMATION

Objectives of the College. The curricula are intended to meet the needs of students who expect to take four years of college work, of those who intend to enter professional schools, and those who are preparing to begin life's work after completing a year or more in college. An equally important function of the Tyler Junior College is an adult education program to meet the needs of the area.

Accrediting. The Tyler Junior College is a member of the Association of Colleges and Secondary Schools for the Southern States, the Texas Association of Colleges, and the Texas Association of Music Schools.

Membership in these accrediting associations makes possible the transfer of credit for work done in Tyler Junior College to other colleges and universities.

Since colleges differ in their curricula, a student should secure the catalogue of the institution to which he intends to transfer credit. Courses for his first two years should be planned in accordance with the degree plan of the institution to which he will transfer.

Admission. Registration for the fall semester begins in June and continues daily throughout the summer. By this system the student is assured of thorough and leisurely counseling on available degree plans.

Students will avoid delay in registering by sending a transcript of credits from the high school or college last attended.

1. Admission by Graduation from High School.
   Graduation from a standard high school with at least fifteen units of high school credit, including three units in English, is required. The elective units must be chosen from the list approved by the Texas Education Agency.

2. Admission by Examination.
   Students who are graduates of a high school may absolve the deficiency by taking examinations.

3. A limited number of special adult students are admitted to evening classes upon individual approval.

Attendance. Regular class attendance is fundamental for the success of the student; therefore, a student must report promptly and regularly to all classes. Excessive absence is cause for dropping the student from the rolls.

Guidance and Counseling. The college offers an extensive program in testing, guidance and counseling, under the supervision of the Director of Guidance and Counseling. All beginning freshmen in the Academic, Music, Nursing, and Business Departments are required to take a series of standardized tests which serve as a basis for future counseling.

Grades and Reports. Students or parents receive grade reports every nine weeks. The standing of the student in each course is determined by his daily performance and by regular examinations. Two hours is considered a reasonable amount of time for average students to spend in preparation for each hour of class work.

Students' grades may be interpreted as follows:

A Excellent
B Good
C Average
D Poor
E Conditional*
F Failure
I Incomplete**
X Official drop while passing
XF Official drop while failing
Q Unofficial drop
W Official withdrawal from college while passing
WF Official withdrawal from college while failing

* A student making E will be permitted to remove the condition by a second examination within a semester.

** An incomplete must be made up within the following semester. After this time it is changed to F.

Graduation, Degrees and Certificates

The college awards the Associate degree in the fields of liberal arts, business administration, engineering, and science to those who complete the requirements as set forth for the particular degree desired and who make proper application to the Registrar for that degree.

Associate in Arts Degree. Students who complete specified liberal arts or pre-professional requirements for graduation receive the Associate in Arts Degree. Students must complete sixty semester hours of work (exclusive of physical training) with an average grade of at least C.

The sixty semester hours should include twelve hours in English, six in United States History, six in government, and at least fifteen hours of sophomore rank; however, the degree will be granted to any student completing any required sixty hours

of a baccalaureate degree plan, provided Government 213-223 and United States History 213-223 are included and the general average is at least C.

At least fifteen semester hours must be completed at Tyler Junior College.

Students who graduate are required to attend the commencement exercises unless excused.

Associate in Business Administration Degree. The degree of Associate in Business Administration is conferred upon students who complete a minimum of sixty semester hours (exclusive of physical training) combining liberal arts with a concentration of secretarial and business administration courses, provided a minimum of a "C" average is maintained and six hours each are completed in English, United States History and Government.

Associate in Engineering Degree. The degree of Associate in Engineering is conferred upon students who complete, with a minimum of "C" average, a total of sixty hours (exclusive of physical training) in required concentrations in technological fields such as Electronics, Surveying, Drafting or Petroleum Technology and provided six hours each are completed in English, United States History and Government.

Associate in Science Degree. The degree of Associate in Science is conferred upon students who complete a minimum of sixty hours (exclusive of physical training) combining liberal arts with certain technical courses. An average of at least C must be attained. Government 213-223, six hours of United States History and six hours of English must be completed.

The degree is granted in laboratory technology and nursing arts.

Proficiency Certificates. Students who satisfactorily complete certain courses of a vocational nature are awarded certificates of proficiency.

Students who satisfactorily complete technological courses without taking liberal arts courses for a degree are awarded certificates of proficiency.

Buildings and Facilities

The Tyler Junior College occupies its own 40-acre campus upon which eight modern buildings of colonial architecture have been erected since 1948 as follows:

The Main Building. Most of the academic classes are held in this building and in it also are located the business offices, the library, laboratories, and various special rooms.

The Wise Auditorium - Fine Arts Building. This building, erected from the proceeds of a bond issue and a substantial gift from the Hon. Watson W. Wise, includes an auditorium of surpassing beauty, in addition to special rooms for music, art, drama, and speech arts.

The Technology Building. This building includes special classrooms and laboratories for instruction in petroleum technology, surveying, auto mechanics, and drafting.

The Student Center Building. The College Bookstore, Snack Bar, student recreational facilities, and College Dining Hall are housed in this building.

Gentry Gymnasium.

Dormitories

Three modern air-conditioned dormitories, one for women and two for men, are maintained as follows:

Women's Dormitory. This residence hall was erected in 1958 and furnished through the generosity of Dr. and Mrs. Edgar H. Vaughn. It accommodates 48 women.

Men's Dormitory No. 1. 40 men are accommodated in this dormitory.

Men's Dormitory No. 2. Facilities for 48 men are provided.

Numbering of Courses

One semester hour represents one class hour per week for four and a half months; for example, one course meeting three hours a week for nine months carries credit of six semester hours.

Courses are numbered as follows (except in nursing): The first digit of the number indicates the college year in which the course is taken; the second digit in the number indicates the semester of the year in which the course is taken; the final digit indicates the credit value of the course in semester hours; thus, English 123 indicates that the course is the first year, second semester English with a credit value of three semester hours. The addition of a lower case letter indicates that the course is taught in two or more divisions. The letter S indicates a summer school six weeks course.

All descriptive titles of courses are followed by two numbers in parenthesis. The first of these numbers gives the number of class meetings each week while the second number gives the number of hours of laboratory each week. For example, the notation (3-2) indicates that a course has three class meetings and two hours of laboratory weekly.

Transfer to Other Institutions. Since colleges differ in their curricula, a student should secure the catalogue of the institution to which he intends to transfer credit. Courses for his first two years should be planned in accordance with the degree plan of the institution to which he will transfer.

Library. An excellent reference library consisting of more than 10,000 volumes is housed in the main college building. Here the college also maintains audio facilities whereby the student may listen to musical, dramatic, and literary recordings.

Evening College. A regular schedule of evening classes has been arranged, meeting from 7:00 p.m. until 10:00 p.m.

Any adult interested is invited to call the Registrar, Phone LY 4-4281, or the Director of Evening College, Phone LY 2-6761, for further information.

Student Load. Except by special permission from the Dean, a student will not be permitted to register for fewer than four or more than five courses.

Student Housing

Reservations. Students wishing to make dormitory reservations should write to the Dormitory Director, Tyler Junior College, requesting an official application blank for this purpose. It must be accompanied by a deposit of $30.00 which is applied on the last month of the college year.

Students will be notified by mail the date upon which they should arrive and the supplies which they should buy.

Dining Hall. Students living on the campus take their meals in the College Dining Hall.

Dormitories. The college maintains two modern air-conditioned dormitories for men and one for women.

Charges. Room, board and supervision for each semester as follows:

Women's Residence Hall.....$270.00 per semester
Men's Residence Hall No. 1.....$270.00 per semester
Men's Residence Hall No. 2 (Newest)....$270.00 per semester

Board and room payments are due in full at the beginning of each semester and they cover the period beginning September 6, 1960 through June 2, 1961.

Students wishing to pay by the month may do so at the rate of $60.00 per month payable on or before the 5th of each month.

Dormitory Holidays and Dining Hall Holidays

Thanksgiving Holidays. All dormitories will close November 23, 1960. They will reopen November 27, 1960.

The dining hall will close following the evening meal November 23, 1960. It will reopen for breakfast Monday, November 28, 1960.

Christmas Holidays. The dormitory will close Friday, December 16, 1960. They will reopen Monday, January 2, 1961.

The dining hall will close following the evening meal Friday, December 16, 1960. It will reopen for breakfast, Tuesday, January 3, 1961.

Easter Holidays. The dormitories will close Thursday, March 30, 1961. They will reopen Monday, April 3, 1961.

The dining hall will close following the evening meal Thursday, March 30, 1961. It will reopen for breakfast Tuesday, April 4, 1961.

Tuition and Fees

Tuition rates in Tyler Junior College are low, since the college is partially supported by the State of Texas. Tuition is due in full at the beginning of the semester. Any other plan must be by special arrangement with the Business Manager.

Tuition per semester is as follows:

Residents of the TJC District:

For three or more subjects.....$50.00
For two subjects..... 35.00
For one subject..... 17.50

Non-Residents of the TJC District:

For three or more subjects	$75.00
For two subjects	55.00
For one subject	30.00

The tuition rate charged non-resident students is subject to increase without prior notice.

Tuition rates for Evening College courses for all residents of the State of Texas are the rates specified for residents of the Tyler Junior College District.

Technical, vocational and terminal courses—see special announcements of these courses for rates. Page 54.

Music Fees Per Semester—Individual Lessons

	Regular Students Who Enroll for 12 Sem. Hours or More		Special Students Who Enroll for Music Only	
	One 30-min. Lesson Per Week	Two 30-min. Lessons Per Week	One 30-min. Lesson Per Week	Two 30-min. Lessons Per Week
Piano	$54.00	$75.00	$72.00*	$126.00*
Voice	54.00	75.00	72.00*	126.00*
Violin, Violincello	54.00	75.00	72.00*	126.00*
Harp	54.00	75.00	72.00*	126.00*
Organ	54.00	75.00	72.00*	126.00*
Clarinet	54.00	75.00	72.00*	126.00*

Piano Pedagogy (one two hour session per week)	$30.00
Voice Diction (one hour per week)	18.00
Practice Room (four hours per week)	4.00

* Includes $17.50 tuition plus special music fee.

Graduation Fees. A cap and gown fee of $3.50 and a diploma fee of $3.50 are paid by students at the time of graduation.

Non-Resident Tuition. Students whose residence is outside the State of Texas, and who are thereby classified as non-resident students according to the definition provided by House Bill 507 (enacted by the Fiftieth Legislature of the State of Texas,) are charged a non-resident tuition of $200.00 per semester for a full student load of twelve hours or more in accordance with the provisions of House Bill 507. The non-resident fee is subject to change without notice.

For less than twelve semester hours the non-resident rate is $25.00 per semester hour, with a minimum of $25.00.

Refund Policy. During the regular session (fall and spring semesters) the tuition charge for withdrawals effected during the

first two weeks of classes is 20 per cent of the regular tuition fee. The tuition charge for withdrawals effected during the third week of the semester is 40 per cent of the total, 60 per cent during the fourth week, 80 per cent during the fifth week, and 100 per cent after the fifth week.

Student Aids, Loans and Scholarships

The Honor Graduate Scholarship. The highest honor graduate of any affiliated high school is given a scholarship covering his tuition. This scholarship must be used within one year from the date of graduation.

The A.A.U.W. Women's Graduate Scholarship. The Tyler Branch of the American Association of University Women has established an annual scholarship of $100 to be awarded to a woman graduate. The scholarship is awarded on the basis of scholarship, character, and need and is to be used for tuition and fees at the senior institution chosen by the student. The grantee is chosen by a scholarship committee of the A.A.U.W. from a list of three nominees by the college.

The Epsilon Sigma Alpha Scholarship. The Epsilon Sigma Alpha Sorority, through the Iota Omega Chapter of Tyler, provides a women's tuition scholarship of up to $120.00 based upon ability and need.

The Crusaders Scholarship. The Crusaders Class of the Marvin Methodist Church awards an annual scholarship in the amount of $125 to a worthy and needy student.

The Coterie Club. The Coterie Club, composed of musicians and music lovers, has established a scholarship which is awarded annually to a student who shows outstanding talent in music.

The Wilton Fair Endowment. Mr. and Mrs. Wilton Fair have established an endowment which is used each year for scholarships and similar purposes.

This endowment consists of the revenue from certain valuable oil properties deeded to the college. Mr. Fair, a former member of the Board of Trustees of Tyler Junior College and one of its most active supporters, and Mrs. Fair established this fund in 1952.

The Pirtle Scholarship in Science and Engineering. Through the generosity of Mr .and Mrs. George Pirtle an annual scholarship of five hundred dollars is bestowed upon a graduating student majoring in engineering or a physical science.

The Texas Society of Professional Engineers Scholarship in Mathematics, Science or Engineering. The Texas Society of Professional Engineers has established a five hundred dollar scholarship made to a graduating Tyler Junior College man or woman who plans to continue study leading to a degree in engineering, chemistry, geology, physics, or mathematics.

The scholarship is awarded on a competitive basis determined by scholarship, character, and need.

Opti-Mrs. Club Scholarship. The Opti-Mrs. Club, composed of the wives of the various Optimist Club members of Tyler, has established two $100 tuition scholarships for sophomore students based upon ability and need. The student chosen must be a resident of the Tyler Junior College District.

The Mary Wallace Education Scholarship. Mr. Emmitt Williams, a former student, has established a $100 annual scholarship for a second year student preparing for the teaching profession. The recipient must be of good character, pleasing personality, hold at least a B average in two semesters work and need scholarship aid.

The Golden Gloves Scholarships. In 1957, Mr. Harold Lawler, a former student of the college and state Golden Gloves Champion, established an annual two-year tuition scholarship for the best all-around high school senior in the Tyler Golden Gloves Regional Tournament.

Four more two-year Golden Gloves Scholarships have been added by the Butler Publishing Company, Gilbert Reeves, Gulf Products Distributor, the Tyler Optimist Club and by an anonymous donor.

The En Avant Club. The En Avant Club, a group of civic-minded young ladies, annually provides a scholarship to some young woman.

The Barbee-Chapell Hill High School Scholarship. Through the generosity of Mr. Wallace Barbee, an ex-student of Tyler Junior College, an annual tuition scholarship has been set up to be awarded to the Chapel Hill High School senior voted the most likely to succeed.

The Swanson Award. A prize of $100 is awarded by former Representative F. G. Swanson for an essay contest concerning a subject in the field of government.

The Laura Greer Scholarship. The Third District of the Texas Federation of Women's Clubs, through the Tyler 51 Literary Club, has established this scholarship in honor of Mrs. Laura Greer, Past President of the Third District. The amount of $150 is awarded annually under the rules prescribed by the Federated Club Committee.

1. The award is made to a second-year student, man or woman, majoring in government.

2. Personal qualities are:
   (a) The student must be worthy.
   (b) The student must rate high in scholarship.
   (c) The student must show a sustained interest in good government.

The Optimist Club Oratorical Scholarship. The Optimist Club of Tyler has established a $100 scholarship in Tyler Junior College for the winner of the annual oratorical contest.

The Vaughn Foundation Loan Fund. Through the Vaughn Foundation, Dr. Edgar H. Vaughn, a public spirited friend of Tyler Junior College, has set up a student loan fund. Any worthy full-time student approved by the faculty scholarship committee is eligible for a loan free of interest until graduation in his chosen field.

The T. B. Butler Journalism Key. The T. B. Butler Publishing Company of Tyler annually presents a gold key to the outstanding Journalism student of the college.

Chitwood Loan Fund. Through the generosity of Mr. W. Roy Chitwood a loan fund for deserving students has been established. A low rate of interest is charged and loans repaid are returned to the loan fund for the use of other students.

The Watson W. Wise Incentive Award. An endowment fund established by the Honorable Watson W. Wise, President of the Board of Trustees of the college, who has made many generous gifts to the college, provides an annual sum for a beautiful trophy cup awarded to the student chosen by a faculty committee as best exemplifying the virtues of industry, scholarship, and student activity.

The Henry King Kiwanis Scholarship. Through the generosity of Mr. Henry King, the Tyler Kiwanis Club annually provides a scholarship of up to one hundred fifty dollars. It is granted to a Smith County young man on the basis of ability and need.

The D.A.R. History Scholarship. The Mary Tyler Chapter of the Daughters of American Revolution awards a $100 sophomore scholarship annually to an outstanding freshman student planning to major in history.

Smith County Bar Association Scholarship. The Smith County Bar Association has established an annual scholarship of $150 which is granted to a student completing his freshman year and planning to major in History, Government or Economics or to one registered in a pre-law program of any kind.

The award is deposited with Tyler Junior College for the student's expenses in his second year. Outstanding scholarship and participation in extra-curricular activities are the basic qualifications upon which the choice is made. Need of the student is a secondary qualification.

Texas Law Enforcement Foundation Scholarships. The Texas Law Enforcement Foundation makes available scholarships for sons and daughters of deceased law enforcement officials. Application blanks may be obtained from the Foundation Office, P. O. Box 912, Austin, Texas.

National Defense Student Loans. Under the provisions of the National Defense Education Act of 1958 qualified students may borrow funds to further their college education. To qualify, a student must be in need of the amount of the loan and must, in the opinion of his institution, be capable of maintaining good standing in his chosen courses of study.

Veteran Dependency Scholarships. The Federal Government has set up provisions in Public Law 634 whereby certain veteran dependents may be eligible for a subsidy while pursuing their education. Orphans of service personnel and dependents of veterans with service connected disability may find themselves eligible.

Vocational Rehabilitation Assistance. The State Board of Vocational Education, through the Vocational Rehabilitation Division, offers assistance for tuition to students who have physical disabilities, provided the vocational objective selected by the disabled person has been approved by a representative of the Division. Application for Vocational Rehabilitation assistance should be made to the Rehabilitation office, Box 2034, Longview, Texas, or to the Director of Vocational Rehabilitation, Texas Education Agency, Austin, Texas.

Student Activities

The Tyler Junior College provides various types of student activities which furnish training in leadership, afford opportunities for diversion, and serve as a means of student development. Among these activities are the following:

The Apache. The Apache is the college yearbook. It is an outstanding publication edited and published by a student staff.

The Apache Band. The famous Apache Band is the official college band, open to all qualified students.

The Pow-Wow. The Pow-Wow, the official college newspaper, is prepared and managed by a student staff under the direction of faculty sponsors. Students act as reporters, editors, and business managers of this publication. The paper is furnished free to students.

For five years the Apache Pow-Wow has won the highest reward given by the Associated Collegiate Press. This award, The All American Honor Rating, is given in recognition of merit to a limited number of junior colleges annually.

The Apache Belles. The internationally famous Apache Belles is a uniformed women's organization which presents skilled group performances and routines at football games, and on other occasions.

Throughout the year special study is given to good taste in clothing, make-up, manners and general personal improvement.

Athletics and Physical Training. The college schedules intercollegiate games in football and basketball. A complete physical education program provides opportunity for participation by both men and women in numerous sports.

The Atta Kula Kula. This traditional organization of the women of the college provides a general program of recreation, entertainment, instruction and social activity for all women interested in membership. For the past eleven years Mr. and Mrs. D. K. Caldwell have provided a dinner for all members of the organization.

The Singing Apaches. The Singing Apaches is a choral society open to capable students interested in vocal music.

The Engineers' Club. This club is composed of students interested in all fields of engineering. Various field trips are taken to indi-

cate the future possibilities of the different branches of the engineering profession.

Sigma Sigma. This organization consists of students preparing to enter the business vocations, such as secretarial and clerical. It provides helpful guidance to the members of the club, as well as pleasant social activities.

Student Education Association. The Student Education Association has as its purpose the promotion of a better understanding of the teaching profession. Its membership is composed of those whose objective is to enter the profession.

Las Mascaras Dramatic Club. Las Mascaras fosters an interest in all phases of forensic and dramatic art. Any student in Tyler Junior College who is interested in them is eligible for membership. Las Mascaras sponsors major dramatic productions and forensic competitions each year.

Phi Theta Kappa. The Alpha Omicron Chapter of Phi Theta Kappa, the national Junior College scholastic fraternity, is composed of members selected on the basis of scholarship, character, leadership and service. Its membership is restricted to ten percent of the students enrolled in the Tyler Junior College, and the faculty and local chapter name as members those students meriting special honor.

The Student Council. The Student Council is the official organization for student government.

Social Activities. The social activities of the college include parties, dances, feature movies and other social affairs under the direction and management of the Student Council and a faculty committee headed by the Director of Student Activities.

SUGGESTED COURSES OF STUDY FOR FRESHMEN

The following plans are a few of the most popular fields and do not indicate that others cannot be taken. College officials will work out degree programs in any desired field.

Since college plans differ, the student should check his course by the catalogue of the college to which he intends to transfer or request the Registrar or Dean to assist him in doing so.

Freshmen are required to take Physical Education.

Agriculture. (Texas A. & M. Plan. Special course plans for other institutions will be arranged.)

SUBJECT	CREDIT
English	6 semester hours
Chemistry	8 semester hours
Algebra	3 semester hours
Biology 113-A	3 semester hours
Agriculture	6 semester hours
United States History	6 semester hours
Psychology 111	1 semester hour

Bachelor of Arts or Bachelor of Science Degree.

English	6 semester hours
Mathematics	6 semester hours
United States History	6 semester hours
Natural Science	6 or 8 semester hours
Foreign Language	8 semester hours
Psychology 111	1 semester hour

Bachelor of Business Administration. (General Plan)

Mathematics	6 semester hours
English	6 semester hours
Natural Science	6 or 8 semester hours
Speech	3 semester hours
United States History	6 semester hours
Typewriting (non-credit)	0 semester hours
Elective	3 semester hours
Psychology 111	1 semester hour

Dentistry.

English	6 semester hours
Chemistry	8 semester hours
Biology	8 semester hours
United States History	6 semester hours
Elective	3 semester hours
Psychology 111	1 semester hour

Elementary Education Major.**

English	6 semester hours
Education	6 semester hours
United States History	6 semester hours
General Biology	8 semester hours
Music or Art	6 semester hours
Psychology 111	1 semester hour

**Students on University of Texas degree plans should take note of mathematics and foreign language requirements.

Secondary Education Major. The plan is the same as the above except music or art is not required unless the student plans to major in one of these fields. Others should substitute subjects in the chosen major fields for music or art.

Engineering.*

English	3 semester hours
Chemistry	8 semester hours
Engineering Drawing	3 semester hours
Descriptive Geometry	3 semester hours
Algebra	3 semester hours
Trigonometry	3 semester hours
Analytic Geometry	3 semester hours
Physics 124-A	4 semester hours
Calculus	3 semester hours
Psychology 111	1 semester hour

Forestry.

English	6 semester hours
Algebra	3 semester hours
Biology	8 semester hours
Trigonometry	3 semester hours
Engineering Drawing	3 semester hours
Descriptive Geometry	3 semester hours
United States History	6 semester hours
Psychology 111	1 semester hour

Geology. (University of Texas)

English	6 semester hours
Geology	8 semester hours
Mathematics	6 semester hours
Chemistry	8 semester hours
Foreign Language or Physics	8 semester hours
Psychology 111	1 semester hour

Geology. (Texas A. & M.)

English	6 semester hours
Chemistry	8 semester hours
Trigonometry	3 semester hours
Algebra	3 semester hours
Analytic Geometry	3 semester hours
Geology	8 semester hours
Psychology 111	1 semester hour

*Note—Deficiencies in high school mathematics or science may be made up in the College, but the normal schedule must be reduced.

Home Economics.

English	6 semester hours
Chemistry	6 or 8 semester hours
Home Economics	6 semester hours
Education	6 semester hours
United States History	6 semester hours
Psychology 111	1 semester hour

Law.

United States History	6 semester hours
English	6 semester hours
Natural Science	8 semester hours
Mathematics	6 semester hours
Public Speaking	6 semester hours
Psychology 111	1 semester hour
Typewriting (non-credit, if taking the Business Administration Plan)	0 semester hours

Medicine.

English	6 semester hours
Chemistry	8 semester hours
Algebra	3 semester hours
Trigonometry*	3 semester hours
United States History	6 semester hours
Biology	8 semester hours
Psychology 111	1 semester hour

X-Ray Technology. To meet the growing demand for specialized trainees in X-Ray Technology, the Tyler Junior College offers a two-year program in this field in cooperation with the Mother Frances Hospital and Medical Center Hospital.

Since the program is approved by the American Medical Association, graduates are eligible to take examinations for registry.

Two-Year Certificate.

Physics 114	X-Ray Physics 122*	X-Ray Techniques*
Algebra 113-C	Biology 112*	Psychology 111
English 113		

Professional Nursing. The Tyler Junior College cooperates with the Texas Eastern School of Nursing by teaching under contract the first two nine-month academic years of the required three-

*Unless taken in high school and surplus units offered for college admission in which case Algebra 113-A and Analytic Geometry are required.

*Courses taken at Medical Center and Mother Frances Hospitals.

year course of study leading to eligibility to take the State examinations for registration as a professional nurse with the title of R. N.

After the required course in Tyler Junior College, the student completes the summers and third year in the Texas Eastern School of Nursing, an independent, incorporated State-approved nursing school in Tyler.

The following is the curriculum for the first two academic years as taught in Tyler Junior College:

First Year — First Semester.

English 113	3 semester hours
Biology 113B	3 semester hours
Chemistry 113	3 semester hours
Biology 114A	3 semester hours
Nursing 113	3 semester hours
Psychology 111	1 semester hour

First Year — Second Semester.

Biology 123B	3 semester hours
Nursing 123	3 semester hours
Chemistry 123	3 semester hours
Pharmacology 113	3 semester hours
Home Economics 123C	3 semester hours

First Year — Summer Term.

Nursing 111S	1 semester hour
Nursing 212S	3 semester hours
Nursing 121A	1 semester hour
Nursing 121	1 semester hour

Second Year — First Semester.

English 123	3 semester hours
Nursing 213F	3 semester hours
Nursing 223F	3 semester hours
Nursing 223	3 semester hours
Nursing 223E*	3 semester hours
Psychology 213	3 semester hours

Second Year — Second Semester

Nursing 223E**	3 semester hours
Sociology 213	3 semester hours

*One half of the class takes the course the first semester.

**Remaining half of class takes the course the second semester.

Pre-Nursing Baccalaureate Degree Plan.

English	6 semester hours
United States History	6 semester hours
Biology	8 semester hours
Psychology	3 semester hours
Chemistry	6 semester hours
Sociology	3 semester hours
Psychology 111	1 semester hour

Optometry.

English	6 semester hours
Physics	8 semester hours
Chemistry	8 semester hours
Biology	8 semester hours
Mathematics	6 semester hours
Psychology 111	1 semester hour

Pharmacy.

English	6 semester hours
Biology	8 semester hours
Physics	8 semester hours
Chemistry	8 semester hours
United States History	6 semester hours
Psychology 111	1 semester hour

Journalism

English	6 semester hours
Natural Science	6 or 8 semester hours
Foreign Language	8 semester hours
Mathematics	3 semester hours
Journalism	3 semester hours
United States History	6 semester hours
Psychology 111	1 semester hour

Laboratory Technology.

Designed to meet the particular needs of the medical profession, this two-year course as outlined not only enables the trainee to perform laboratory technician duties but also those of a medical secretary. The course is taught in cooperation with Mother Frances Hospital and Medical Center Hospital. Completion of a third year qualifies the student for examination leading to registry as a licensed laboratory technician.

Associate in Science in Laboratory Technology. (Medical Secretary Option)

First Semester
English 113
Chemistry 114
General Biology 114
Biology 113-B
Biology 114-A
Psychology 111

Second Semester
English 123
Chemistry 124
Biology 124
Biology 123-B
Applied Techniques 114*

Third Semester
Chemistry 214
Applied Techniques 124*
Government 213
Shorthand 114
History 213
Typing (non-credit)

Fourth Semester
Chemistry 224
Applied Techniques 213*
Government 223
Shorthand 124
History 223
Typing (non-credit)

One Year Business and Commercial Courses. For business students interested in an intensive business course, the Certificate of Proficiency is awarded either in secretarial science, office management, or general business, upon completion of 30 semester hours of work. These courses are planned to train the student for work in an office. All courses listed under the suggested plan are required.

Secretarial Course

English 113 ..... 3 semester hours
Shorthand 114-124 ..... 8 semester hours
Typewriting 113-123 ..... 6 semester hours
Secretarial Practice 113-123 ..... 6 semester hours
Office Machines 113 ..... 3 semester hours
Business Correspondence 113C ..... 3 semester hours
Business Mathematics 113 or
Secretarial Accounting 123 ..... 3 semester hours
Psychology 111 ..... 1 semester hour

Office Management Course

English 113 ..... 3 semester hours
Accounting 214-224 ..... 8 semester hours
Typewriting 113-123* ..... 6 semester hours
Federal Tax Accounting 123B ..... 3 semester hours
Office Machines 113 ..... 3 semester hours
Business Mathematics 113 ..... 3 semester hours
Business Law 213L ..... 3 semester hours
Psychology 111 ..... 1 semester hour

General Business Course

English 113 ..... 3 semester hours

*Courses taken at Medical Center and Mother Frances Hospitals.

*Shorthand 114-124 and Typewriting 113-123 are interchangeable in the above Management Plan depending upon the student's needs.

Typewriting 113-123 ..... 6 semester hours
Shorthand 114-124 ..... 8 semester hours
Secretarial Practice 113-123 ..... 6 semester hours
Office Machines 113 ..... 3 semester hours
Elective (Business or related courses) ..... 6 semester hours
Psychology 111 ..... 1 semester hour

Suggested Associate in Business Administration Degree Plan.

Secretarial Plan — Freshman Year

English 113-123 or 223B ..... 6 semester hours
Shorthand 114-124 ..... 8 semester hours
Typewriting 113-123 ..... 6 semester hours
Secretarial Practice 113-123 ..... 6 semester hours
History 213-223 ..... 6 semester hours
Psychology 111 ..... 1 semester hour

Secretarial Plan — Sophomore Year

Shorthand 214-224 ..... 8 semester hours
Typewriting 213-223 ..... 6 semester hours
Accounting 214-224 ..... 8 semester hours
Business Correspondence 113C ..... 3 semester hours
Office Machines 113M ..... 3 semester hours
Government 213-223 ..... 6 semester hours

General Business Plan — Freshman Year

English 113-123 or 223B ..... 6 semester hours
Shorthand 114-124 ..... 8 semester hours
Typewriting 113-123 ..... 6 semester hours
Secretarial Practice 113-123 ..... 6 semester hours
History 213-223 ..... 6 semester hours
Psychology 111 ..... 1 semester hour

General Business Plan — Sophomore Year

Accounting 214-224 ..... 8 semester hours
Business Correspondence 113C ..... 3 semester hours
Business Law 213L ..... 3 semester hours
Government 213-223 ..... 6 semester hours
Economics 213 ..... 3 semester hours
Speech 113 ..... 3 semester hours
Business Mathematics 113 ..... 3 semester hours
Office Machine 113M ..... 3 semester hours

Description of Courses

For a description of the system of numbering of courses, see page 15 of this catalogue.
Agriculture Courses with the Asterisk are offered in 1960-61.

***Agriculture 113 — General Animal Husbandry (2-2)** An introductory survey course intended to acquaint the student with the importance of livestock and livestock farming. General factors influencing efficiency in feeding, market value, breeding, health and adaptability of various species to geographical and climatic regions are studied. The course is designed to develop in the student an appreciation of improved livestock. Selecting and judging the various breeds and market classes are stressed in laboratory.

***Agriculture 113A — General Entomology (2-2)** The systematic study of the principal orders of insects; the relation of the anatomy of the insect to control measures; the life histories of the more common insects; methods of control for injurious forms.

Agriculture 113B — Dairying (2-2) Dairying in its relation to agriculture and community development; branches of dairy industry and conditions affecting their development; the place of dairying on the farm; composition and food value of milk and its products; the production and handling of clean milk on the farm.

Agriculture 113C — Poultry Production (2-2) The breeds and types of poultry, culling, poultry for egg production, incubation, brooding and feeding for growth and egg production, winter and summer management, housing and hygiene, preparing poultry for market, methods of marketing; practical application of these subjects to general farm conditions. The practice consists of the identification of breeds and varieties, judging, poultry for egg production, plans for poultry farms and poultry houses, identification of feeds.

***Agriculture 123 — Fundamentals of Crop Production (2-2)** Classification and distribution of farm crops; importance of good varieties and good seed; crop improvement; preparation of the seed bed, commercial fertilizers, manures and lime; seeding practices; crop tillage; harvesting; meadow and pasture management; weeds; crop rotation; diseases and insect enemies.

***Agriculture 123D — Wildlife Management (3-0)** A course designed to acquaint the student with the wildlife resources of the United States with special reference to Texas. Emphasis is placed on the inter-relationship of plants and animals in our environ-

ment with plans and methods for rehabilitation, maintenance and increase of the desirable species.

Agriculture 123B — Horticulture (2-2) A general study of horticulture; the growth and fruiting habits of horitculture plants; a study of the principles and practices of propagating vegetables, fruits and ornamentals, including the methods of handling seed, cuttage, layerage, grafting, budding and bulbs; a study of the planting, fertilization, care, culture, harvesting, handling and utilization of fruit and vegetable crops.

Agriculture 123C — Marketing of Agriculture Products (3-0) A study of the general principles, practices, and problems involved in marketing farm products.

Art

Art 113 — Creative Design (2-4) Fundamental experience with various materials; emphasis upon the development of an awareness of the factors of visual expression, color, form and design. **Art 123 — Creative Design (2-4)** A basic course in the fundamentals of color and drawing in design.

Art 113A — Home Planning and Furnishing (Interior Decoration) (3-0) This course includes a study of floor plans in relation to the work units and furnishings of the home and the selection and placing of furnishings suited to the modern home.

Art 113B — Art Education (2-4) Materials, techniques and media for Creative Art in the elementary grades. May not be counted by art majors.

Art 123B — Art Education (2-4) A continuation of Art 113B. May not be counted by art majors. Pre-requisite: Art 113B.

Bible

(By affiliation with the Smith County Baptist Chair of Bible, the Bible Chair of Texas Methodist Student Movement, and the Church of Christ Bible Chair.) (A maximum of twelve semester hours will be accepted toward a degree.)

Bible 113 — Old Testament Survey (3-0) A study of all the books of the Old Testament giving attention to the historical setting, the message, and the place of each book in its relation to the Bible as a whole.

Bible 123 — New Testament Survey (3-0) A study of all the books of the New Testament as to author, message, and relation to the entire Bible.

Bible 213 — Life and Teachings of Jesus (3-0) A study of the life of Jesus and His teachings as applied to present-day life.

Bible 223 — Life and Teachings of Paul (3-0) A study of the life and teachings of Paul and their part in the early spread of Christianity.

Biology

Biology 114 — Animal Biology (3-3) A brief study of the nature of protoplasm and the structure and function of cells is followed by a systematic survey of the animal kingdom, with emphasis on such forms as are of human interest or application. There follows a study of adaptations in selected types as a basis for a consideration of the origin of species and the principles of organic evolution. This course may be followed, or preceded, by Biology 113A by students desiring a year of general biology; it should be followed, or preceded, by Biology 124 by those desiring general zoology.

Biology 124 — Animal Biology (3-3) A study of organ systems of vertebrates, with special reference to man, followed by an introduction to embryology and to the basic principles of heredity.

Biology 113A — General Botany of Seed Plants (2-3) A study of the seed plant as a living unit; external and internal structures in relation to life processes; reproduction and life history.

Applied Laboratory Technology 114-124 (2-8) Theory and practice in the science on a professional basis.

Biology 112 — Anatomy and Physiology (2-0) Anatomy and Physiology for students of X-Ray.

Biology 113B — Anatomy and Physiology (2-2) A study of the anatomy and physiology of the human body. Emphasizes biological principles as applied to vertebrates in general and especially man.

Biology 123B — Anatomy and Physiology (2-2) A continuation of Biology 113B.

Biology 114A — Microbiology (3-2) The characteristics and activities of microorganisms and their relation to health and disease.

Business Administration

Business Administration 110T-120T — Elementary Typewriting (1-2) A beginner's course in typewriting. Exercises for the mastery

of the keyboard by the touch system, instruction in the care of the machine, study of form and arrangement of simple business letters and simple centering. Required of students majoring in business administration.

Typewriting problems in addressing envelopes, writing business letters, tabulation, manuscript writing, and legal document writing.

Business Administration 113 — Oil and Gas Law (3-0) A course designed for workers in petroleum production, leasing, scouting and other oil industry activities.

Business Administration 113B — Introduction to Business (3-0) A general business course designed to give the student an understanding of the fundamental principles of business operation.

Business Administration 113R — Real Estate Law (3-0) The legal decisions and statutory provisions regarding the real estate business; legal elements controlling land boundaries and titles.

Business Administration 113C — Business Correspondence (3-0) A study of grammar, punctuation, sentence structure, paragraphing and composition of business letters.

Business Administration 113D — Business Mathematics (3-0) This course covers the simpler exercises and problems of every-day business calculations—including such topics as the use of aliquot parts, practice on short methods of calculation, fractions, percentage, interest and discount, bonds, depreciation, social security, taxes, property taxes, insurance and stocks.

Business Administration 113E — Personal Finance (3-0) A study of the financial problems confronting an individual before investing in personal property, real property, insurance or securities. Topics studied include credit, banking and inflation as applied to personal needs.

Business Administration 113M — Office Machines (3-0) A course planned to develop in the student a working knowledge of a variety of calculating machines, the dictaphone, the mimeograph, the billing machine, the comptometer and the bookkeeping machine.

A student may arrange to specialize on a particular machine.

Business Administration 113F-123F — Secretarial Practice (2-3) A course designed for students who are interested in the secretarial field. It covers speed dictation, transcriptions, office ethics, duplicating, office machines, filing and postal information; practice is

given in interviewing callers, attending business conferences, and in telephone technique.

Business Administration 113S-123S — Elementary Shorthand (2-2-6) Detailed study of principles of Gregg Shorthand by Simplified Functional Method. Special attention is given to word signs, special forms, phrase writing and rapid reading of shorthand. In the second semester emphasis is given to readiness and accuracy in transcription.

Two hours lecture, two hours laboratory, and at least six hours outside work per week is required.

Business Administration 114-124 — Elementary Shorthand (3-7) Detailed study of principles of Gregg Shorthand by Simplified Functional Method. Special attention is given to word signs, special forms, phrase writing, and rapid reading of shorthand.

No credit in shorthand is granted until proper efficiency in typewriting is demonstrated. Students must attain a typing speed of at least sixty words per minute with not more than five errors in order to receive credit in Shorthand 124.

In the second semester there is continued study and review of the principles of shorthand. Dictation and transcription of new matter with emphasis upon readiness and accuracy in transcription.

Business Administration 113T-123T — Typewriting (1-4) A beginner's course in typewriting. Exercises for the mastery of the keyboard by the touch system, instruction in the care of the machine, study of form and arrangement of simple business letters, and simple centering.

Typewriting problems in addressing envelopes, writing business letters, tabulation, manuscript writing, and legal document writing.

Business Administration 123 — Secretarial Accounting (3-0) A study of the fundamentals of double-entry bookkeeping and their direct application to various business and professions — insurance, law, service operations, medicine, retail stores, and corporations — including the analysis of accounts and the preparation of accounting statements.

Business Administration 123B — Federal Tax Accounting (3-0) Preparation of all forms of tax returns, together with study of pertinent laws and regulations pertaining thereto.

Business Administration 213-223 — Intermediate Accounting (3-3) Financial accounting principles, including treatment of working papers in the advanced stages. Advanced partnership accounting problems dealing with organizations, entrance of new partners, dissolution, and equities. Further study of Corporate Accounting for organization, capital stock, investments, analysis of statements.

Second Semester—Special topics involving problems of consolidation, preparation of consolidated statements, problems in equity with reference to control, branch accounting, fiduciary, and other special types of statements and their analysis.

Prerequisite: Business Administration 123.

Business Administration 213L — Business Law (3-0) Fundamentals, contracts, agency, negotiable instruments, property, and real estate. General principles involving law or bailments, sales, conditional sales, agency, negotiable instruments as they appear in actual cases illustrating practical business problems.

Business Administration 214S-224S — Advanced Shorthand and Office Procedure (3-7) Continued study and review of the principles of shorthand. Emphasis on speed building and transcription.

In the second semester emphasis is on taking dictation at very high rates of speed. Dictation is given in the legal, medical and other technical fields as well as general office routines.

Business Administration 214-224 — Elementary Accounting (3-3) The principles of accounting for a single proprietorship organization. A study of the accounting equation, business transactions, business papers, ledgers, books of original entry, classifications and interpretation of accounts and statements, valuation accounts, accrued and deferred items, and the accounting cycle.

Second Semester—Accounting for partnership and corporate business enterprises. A study of the characteristics of each organization, formation, dissolution, and liquidation.

Prerequisite: Sophomore standing.

Business Administration 213T-223T — Advanced Typewriting Problems (1-4) This course includes business reports, business documents, legal documents, tabulation, statistical material, manucripts, cutting stencils, various forms of business letters and a continued emphasis upon typing speed and efficiency.

Prerequisite: Business Administration 114T-124T.

Chemistry

Chemistry 114-124 — General Chemistry (3-4) A course serving the prerequisite requirement for engineering, medicine, dentistry, and other professional courses requiring advanced work in chemistry. During the second semester the laboratory work deals with the general principles and methods of qualitative analysis.

Chemistry 113-123 — Introductory Chemistry (2-2) Non-technical course which meets the needs of those who do not expect to specialize in science, engineering or medicine. Cannot be substituted for Chemistry 114-124 in meeting prerequisite requirements. Chemistry 113-123 and Chemistry 114-124 may not both be counted for credit.

Chemistry 214 — Organic Chemistry (3-4) Aliphatic compounds exclusive of carbohydrates. Prerequisite: Chemistry 114-124 with at least a C average.

Chemistry 224 — Organic Chemistry (3-4) Carbohydrates and aromatic compounds. Prerequisite: Chemistry 214.

Economics

Economics 213 — Principles of Economics (3-0) An examination of fundamental economic concepts and principles.
Prerequisite: Sophomore standing.

Economics 223 — Economic Problems (3-0) A study of contemporary economic issues and problems.
Prerequisite: Sophomore standing.

Education

Education 113 — Introduction to Educational Psychology (3-0) An introductory study of mental life and the psychological principles underlying motivation, behavior, individual differences, and the learning processes.

Education 123 — Introduction to Education (3-0) A brief survey of the general field of education brought out through a study of the evolution of the present-day public school and its practices.
Prerequisite: Education 113.

Engineering

Engineering 113 — Engineering Drawing (3-3-3) Care and use of drawing instruments and equipment, vertical freehand letter-

ing, engineering geometry, view drawing, revolutions, auxiliaries, sections, engineering sketching, pictorials, dimensioning, working drawings.

Three lectures, three hours of supervised drafting, and three hours of home work per week.

Engineering 123 — Descriptive Geometry (3-3-3) Principles of descriptive geometry and their applications to problems of engineering and architecture. Auxiliary views, developments, intersections, double-curved and warped surfaces in addition to point, line, and plane problems.

Three lectures, three hours of supervised problem work, and three hours of home work per week.

Prerequisite: Engineering Drawing and Solid Geometry or Trigonometry.

Engineering 223 — Applied Mechanics, Statics (3-0) For sophomore students of engineering and architecture, and others who are required to have a comprehensive course in the analysis of forces on structures and machines, the resultants and equilibrium of force systems, friction, moments of inertia of areas, center of gravity, and similar engineering problems.

Prerequisite: Physics 124 or 124A and credit or registration in Calculus 223A.

English

English 112 — Problems of Communications (2-0) Composition and rhetoric for beginning freshmen whose scores on the English Placement Tests indicate the need of a review and a more intensive drill in English composition than is provided in English 113.

English 113 — Composition and Rhetoric (3-0) The development of the student's ability to think for himself and to express his thoughts in correct, clear language. A study of literature in order to encourage reading.

English 123 — Composition and Rhetoric (3-0) Further training in thinking and the ordering of thoughts by the study of the types of composition. Prerequisite: English 113.

English 213 — English Literature (3-0) A survey course using selections from an anthology to emphasize trends in English literature. Advanced composition.

Prerequisite: English 123.

English 223 — English Literature (3-0) The survey of English literature. Advanced composition. Prerequisite: English 123.

English 223B — Technical Report Writing (3-0) Techniques of verbal efficiency in the various media of engineering and scientific communications, with stress on report and research-report preparation, letters and resumes. Required in technological and engineering plans.

Foreign Language

French 114 — Beginner's French (3-2) Drill in the pronunciation and the grammar of the French language with written exercises, dictation and conversation in French.

French 124 — Composition and Reading (3-2)
Prerequisite: French 114 or two admission units in French from high school.

French 213-223 — General Survey of French Literature (3-0) A brief study of political history serves as background. Classics of each period read in class. Outside readings assigned.

Prerequisite: French 124.

Spanish 113-123 — Conversational Spanish (3-0) For students who have never studied Spanish. Conversational approach including fundamentals of grammar, readings, and emphasis on oral and written composition.

Spanish 114 — Beginner's Spanish (3-2) Drill in the pronunciation and the grammar of the Spanish language with written exercises, dictation and conversation in Spanish.

Spanish 124 — Composition and Reading (3-2)
Prerequisite: Spanish 114 or two admission units in Spanish from high school.

Spanish 213-223 (3-0) A survey of the literature of Spain. As a basis for the comprehension of the literature, a survey of Spanish history, both political and literary, from earliest origin to present decade. Lectures in Spanish. Outside reading will be assigned.

Prerequisite: Spanish 124.

Geology and Geography

Geology 114 — General Geology (3-3) Physical geology processes modifying the earth's surface; materials and features of the

earth's crust. Laboratory work in cartography, mineralogy, and petrology.

Geology 124 — General Geology (3-3) Historical geology; the history of the earth through geologic times as revealed by rocks and fossils; the origin and development of plant and animal life. Laboratory work in paleontology.

Prerequisite: Geology 114.

Geology 213 — Mineralogy (2-8) Introductory Course in the study of minerals, including elements of crystallography; determination of the common minerals by their physical properties.

Prerequisite: Trigonometry, Geology 124, and credit or registration for Chemistry 114.

Geology 223 — Petrology (2-4) Origin, mode of occurrence, and determination of the common types of igneous, sedimentary, and metamorphic rocks.

Prerequisite: Geology 213.

Geology 223A — Invertebrate Paleontology (2-4) Invertebrate, phyla; sponges, coelenterate, echinodermata, brachiopods, mollusks, and arthropods, stratigraphic and evolutionary paleontology.

Prerequisite: Geology 114-124. Two lectures and four lab hours a week.

Geography 213 — Economic Geography (3-0) A study of the relationship of man to his environment; problems of production, manufacture, and distribution of goods in the various regions of the world.

Geography 223 — World Geography (3-0) The earth, its climatic regions; the relation of human activities to physical environments; major cultural divisions and selected regions and countries.

Government

Government 213 — American Government (3-0) A functional study of the American constitutional governmental system, of the origins, developments and present-day problems of the national government, of the rights, privileges and obligations of citizenship.

Prerequisite: Sophomore standing.

Government 223 — National and State Government (3-0) The nature, organization, and general principles of local government in the United States, with special attention to these forms in Texas; the judicial, executive, and administrative functions in federal and state government; financing governmental activities.

Prerequisite: Sophomore standing.

History

***History 113 — History of England (3-0)** Survey of the social, economic, political, and intellectual development of Britain from the prehistoric period through the fifteenth century.

***History 123 — History of England (3-0)** Continuation of History 113. Survey of the social, economic, political, and intellectual development of Britain and the British Empire to the present.

****History 113A — Western Civilization in Mediaeval Times (3-0)** A survey course in the cultural and institutional development of the nations of western Europe through the sixteenth century.

****History 123A — Western Civilization in Modern Times (3-0)** Continuation of History 113A. A survey course in the cultural and institutional development of the nations of western Europe from the sixteenth century to the present time.

History 213 — History of the United States (3-0) A general survey of the history of the United States from the era of discovery to the Civil War.

History 223 — History of the United States (3-0) A general survey of the history of the United States from the Civil War to the present time.

Home Economics

H. E. 113A — Food Selection and Preparation (2-4) Fundamental principles in the selection and preparation of foods; nutritive values; cost of foods.

H. E. 123A — Meal Planning and Service (2-4) For majors in Home Economics, hotel or restaurant management. Planning and serving meals suitable for family groups. Selection and use of table appointments. Serving food for special occasions.

H. E. 113B — Costume Design and Selection (2-4) Fundamental principles of design and color applied to the selection and planning of appropriate dress. Emphasis on line, color, and texture in relation to the individual.

H. E. 123B — Elementary Clothing (2-4) The study of textile fabrics. Fundamentals of selection and construction of clothing. Use and alteration of commercial patterns. Problems selected according to the ability and learning experience of the student.

H. E. 123C — Nutrition (2-2) Fundamental principles of human nutrition applied to the individual, family and community nutrition problems. Diet and nutrition in health and disease. Chemstry, physiology and economics of normal nutrition.

Journalism

Journalism 113 — Mass Communications (3-2) (3-3) An introduction to journalism designed to give the student an understanding of the media of mass communications in modern society and the career opportunities in the field. Laboratory: One hour per week for non-majors, two hours per week for majors.

Journalism 213A 223A — News Gathering and Reporting (3-2) (3-3) (3-4) Instruction and practice in interviewing and writing; discussion of news sources, news values, and various types of news stories. Laboratory work on the college paper. Admission by permission of Dean or Registrar. Laboratory: three hours per week for majors, two hours for non-majors in 213A, four hours per week for majors, two hours for non-majors in 223A.

Prerequisites: Thirty hours college credit including at least a C average in freshman English. Credit in high school or college typing or registration in college typing.

Laboratory Technology

Applied Laboratory Technology 114 — Theory and Techniques (2-8)

Applied Laboratory Technology 124 — Intermediate Theory and Techniques (2-8)

Applied Laboratory Technology 213 — Advanced Theory and Techniques (2-8)

Applied Laboratory Technology 206 — Summer Laboratory Practice (Optional) (2-8)

Mathematics

Mathematics 113A — College Algebra (3-0) Fundamental operation with real numbers, polynomials, and rational fractional

*Offered 1961-62
**Offered 1960-61

expressions; equations; inequalities; negative and fractional exponents; variation; progressions; mathematical induction and the binomial theorem; theory of equations; determinants.

Prerequisite: 1 ½ years high school algebra.

Mathematics 113C — College Algebra (3-0) A review of elementary algebra, factoring, fractions, lienar and quadratic equations, systems of lienar equations, exponents and radicals, logarithms, progressions, the binomial theorem.

Mathematics 113B — Trigonometry (3-0) Definition of functions of angles in standard position and of acute angles of a right triangle; derivation of formulas; proof of identities for simple angles, for composite angles, and for inverse functions; solution of triangles, solution of equations; complex numbers.

Prerequisite: Plane Geometry and I year high school algebra of Algebra 113C.

Mathematics 113D — Solid Geometary (3-0) Lines and planes in space; dihedral and polyhedral angles; prisms and cylinders; pyramids and cones; spheres; application to practical problems.

Prerequisite: Plane Geometry.

Mathematics 113E — Introductory College Mathematics (3-0) For the student who will take only one year of college mathematics. Arithmetic, algebraic and trigonometric operations; functions; and graphs.

Mathematics 123 — Mathematics of Finance (3-0) Short-cut methods, simple and compound interest, equations of value, annuities, amortization and sinking funds, depreciation, bonds.

Prerequisite: College Algebra.

Mathematics 123A — Analytic Geometry (3-0) Cartesian coordinates; the straight line, the circle, and conic sections; transformation of coordinates; polar coordinates; parametric equations, rapid sketching; higher plane curves.

Prerequisite: Algebra 113A, Trigonometry 113B.

Mathematics 213 — Calculus (3-0) Variables, functions and limits; differentiation of algebraic functions with applications; differentials; mean value theorem; integration of algebraic functions with applications.

Prerequisite: Math 123A or concurrent registration.

Mathematics 223A — Calculus (3-0) Differentiation and integration involving transcendental functions and applications; approximate integration; indeterminate forms. Prerequisite: Math 213.

Mathematics 223B — Calculus (3-0) Introduction to series; Taylor's series; partial differentiation; multiple integrals; elementary differential equations with applications.

Prerequisite: Math 223A.

Nursing

Nursing 111S — Diet Thearpy (3-0) A consideration of nutritional needs in the treatment of disease conditions. Follows Home Economics 123C and is given prior to supervised experience in the dietary department of the hospital.

Nursing 121 — Principles and Practice in Medical Nursing (1-0) This course presents the introduction to the principles of medical nursing. The content is organized into units according to the anatomical systems of the body with consideration given to the related emotional, social, and mental aspects of the patient. Correlated with the related aspects of the surgical nursing, pharmacology, and nutrition.

Nursing 121A — Principles and Practice in Surgicay Nursing (1-0) The introduction to the principles of surgical nursing. The content is organized into units according to the anatomical systems of the body with consideration given to the related emotional, social, and mental aspects of the patient. Correlated with the related aspects of the medical nursing course. Supervised practice in the medical and surgical services of the Medical Center Hospital and Mother Frances Hospital follow the course as correlated with further courses of theory in this area.

Nursing 113-123 — Introduction to Nursing (2-2) A lecture and laboratory course designed to develop in the student attitudes and ideals desirable in a nurse and the knowledge and skills necessary to give effective nursing care, which includes competent guidance of the individual patient. A study of the aims and methods of teaching health to the individuals and groups in the nursing care of patients in the hospital and community and nursing services.

Nursing 212S — History of Nursing (2-0) An introduction to the School of Nursing program; nursing trends which have brought nursing to the level of a profession. Emphasis is placed on the qualifications of a good nurse and the adjustments necessary in

the profession. Designed to help the student appraise, develop, and maintain an adequate standard of sound physical, mental, and social habits of living.

A survey of the historical developments of nursing from its early conception to the modern times with special emphasis on contemporary movements.

Nursing 213F — Principles and Practice of Medical Nursing (including ward classes) (3-0) A discussion of the course, pathology, prevention, and treatment of medical conditions; the related emotional, social, nutritional and rehabilitative aspects and the nursing care essential to meet the needs of the individual patient. Guided practice in the nursing care of patients in the medical services of the local hospitals.

Nursing 223F — Principles and Practice of Surgical Nursing (including ward classes) (3-0) A discussion of the causes and pathology, prevention and treatment of surgical conditions; the related emotional, social, nutritional, and rehabilitative aspects and the nursing care essential to meet the needs of the individual patient. Guided practice in the nursing care of patients in the surgical services of the Mother Frances Hospital and the Medical Center Hospital. A study of the principles of aseptic operative techniques and the routine procedures used in the care of patients in the operating room.

Nursing 223 — Community Aspects of Nursing Care. A study of the principles and methods of teaching health to individuals and groups, and the application of these methods to the nursing care of patients in the hospital, outpatient department, and community nursing services. A study of the principles and trends in public health nursing and general responsibilities of the nurse in the community.

Nursing 223E — Principles and Practice of Obstetric and Gynecologic Nursing (3-0) This course is divided into two units. The first deals with the Physiological conditions of a normal pregnancy, labor, puerperium, the complications that may arise during any of the periods, the nursing care in normal and complicated conditions, and the care of the newborn, including the premature infant. The second unit is concerned with the diseases of the genital system of the female and includes etiology, symptomatology, prevention, treatment, both operative and non-operative, and the nursing care. In both units emphases are placed on the social and health aspects of the nursing care.

Pharmacology

Pharmacology 113 — Pharmacology and Therapeutics (3-0) Pharmaco-dynamics of therapeutically useful agents; signs and symptoms of overdose and means of counteraction; side effects; synergism, antagonism, and corrective agents. Lecture, demonstrations and laboratory experiments.

Physical Education

Physical Education 111, 121, 211, 221 — Physical Training for College Men (0-2) Includes such activities as football, basketball, baseball, volleyball, track, table tennis, golf, tennis, marching organizations, badminton, softball, bowling, and calisthenics.

Physical Education 111A, 121A, 211A, 221A — Physical Training for College Women (0-2) Physical activities for women including basketball, volleyball, table tennis, golf, tennis, archery, tap dancing, swimming, badminton, bowling, etc.

Physical Education 113C — Art of Daily Living (3-0) (Women) A course designed to place emphasis on the needs and activities of the individual student to assist in making proper adjustments. The fundamental aim is to develop self-assurance through knowledge that one's health, appearance, clothes, styling, make-up, and posture are correct. Students are given personalized instruction with respect to their own problems. By means of lectures, demonstrations, practice, and opportunities to perform in public, an effort is made to develop in the student greater poise and alertness. Instruction includes techniques for balance and control of movement, selection and care of clothing.

Physical Education 113-123 — Methods (2-2) The organization and administration of physical education in the public schools. The course of study for physical education as recommended by the State Department of Education for high schools is used as a basis for study. Laboratory periods are devoted to actual problems in the field.

Physical Education 113A — Theory of Football and Track (3-0)

Physical Education 123A — Theory of Basketball and Baseball (3-0)

Physics

Physics 122 — X-Ray Physics (2-0)

Physics 113 — Elementary Physics (3-0) A course for students needing to meet a general physical science degree requirement. This course will not meet the needs of those planning careers in science, medicine, psychology, mathematics, or engineering. Credit will not be given if the student has had Physics 114 or 124.

Electricity and Magnetism, Atomic and Nuclear Physics. Two lectures, one laboratory demonstration and two hours additional outside required work per week.

Physics 114 — General Physics (3-2-1)* Covers the fundamental principles of electricity, magnetism, sound and light.

Physics 124 — General Physics (3-2-1)* A continuation of Physics 114, to meet the needs of students of pre-medicine, pre-dentistry, architecture, and the liberal arts. Consists of the fundamentals of mechanics, properties of matter, heat and wave motion.

Physics 124A — Engineering Physics for Freshman Engineers (3-2-1) Mechanics and heat. Designed especially for engineering students and others who plan to major in Physics or Chemistry and all students who plan to take Physics 214.

Prerequisite: Admission credit in high school physics or the equivalent: Mathematics 113A and 113B.

Physics 214-224 — Advanced Physics (3-3) A course designed to meet the second year physics requirements of students in engineering, medicine, and those who plan to major in some field of science. Electricity, magnetism, wave-motion, acoustics and optics.

Prerequisite: Six Hours of mathematics and Physics 124 or 124A.

Psychology

Psychology 111 — Freshman Orientation (1-0) Freshman orientation is a course designed to help students bridge the gap between high school and college. Library usage, study habits, good attitudes, and budgeting of time are taught. The giving and interpretation of standardized tests and vocational counseling are included in the course. Required of all beginning students unless excused by the Dean of the College.

Psychology 113A — Psychology of Learning (3-0) Fundamental mental and psychological principles underlying motivation, behavior, individual differences, and the learning processes.

*Three hours lecture, two hours laboratory and additional outside work of at least one hour per week.

The student may not count both Education 113 and Psychology 113A for credit.

This course, in the evening college, is offered in three divisions, $113A_1$, $113A_2$, and $113A_3$. Each division gives one semester hour credit.

Psychology 213 — Introductory Psychology (3-0) A survey of the principles of general psychology developed by lectures, recitations, and demonstrations in class.

Prerequisite: Sophomore standing.

Sociology

Sociology 213 — Introduction to Sociology (3-0) Introduction to the study of society. The community and its structure; the ecological approach to human relationships; elements and processes of social interaction; social change; society and the person.

Prerequisite: Sophomore standing.

This course, in the evening college, is offered in three divisions, $213A_1$, $213A_2$ and $213A_3$. Each division gives one semester hour credit.

Speech and Drama

Speech 111 — Parliamentary Procedure (1-0) A course covering correct procedure in the forming of an organization and how to conduct meetings properly.

Speech 113 — Fundamentals of Speech (3-0) Fundamentals of oral communications; use of the body and voice; participation in various speech situations; planning, organizing and delivering general platform speeches. Speech 113 and Speech 223A cannot both be counted for credit.

Speech 113A — Voice and Diction (3-4) (3-0) Fundamental principles of diction, voice development, and interpretation; intensive practical application through classroom exercises and special projects; developments of the ability to speak before groups. For drama majors three lectures and four laboratory hours per week, for others three lectures per week.

Speech 123A — Oral Interpretation (3-4) (3-0) Continuation of Speech 113A with addition of basic principles of acting and practical work in scenes from plays. For drama majors three lectures

and four laboratory hours per week, for others three lectures per week.

Speech 213 — Debate (3-0) A study of the principles and theories of debate technique. Group, forum and panel discussions are held on foremost controversial issues. Especial attention is given to the current national college debate question. Various intramural and inter-college debates.

Speech 223A — Business and Professional Speaking (3-0) Special types and techniques of speeches most common to business and professional people; theory and practice in business speech situations, personal conferences, oral reports, sales talks and occasional speeches.

Prerequisite: Sophomore standing, except by permission of the Dean.

Speech 113 and Speech 223A cannot both be counted for credit.

Speech 213A — Introduction to the Theater (2-2) An introductory study of the art and aesthetics of drama, including an elementary consideration of plays and playwriting; the techniques and styles of acting and directing; present day production techniques and theaters.

Distributive Education

In accordance with its stated objectives, Tyler Junior College co-operates with business and industrial concerns of the area by providing personnel training programs. Specialized non-credit courses in Distributive Education are organized whenever there is a request by a sufficient number of persons for such a class.

The courses are taught in either the regular day session or in the Evening College to suit the needs of the students.

X-Ray Technology

X-Ray Technology 113 — Beginning Theory and Techniques (1-5)

X-Ray Physics 123 — Physics Theory and Practice Applied in the field of X-Ray (1-5)

X-Ray Technology 213 — Intermediate Theory and Techniques (1-5)

X-Ray Technology 223 — Advanced Theory and Techniques (1-5)

TYLER JUNIOR COLLEGE

TYLER, TEXAS

TECHNICAL AND INDUSTRIAL DIVISION

TECHNICAL AND INDUSTRIAL DIVISION

Tyler Junior College technical and vocational courses are pre-employment training courses which fit the student into the technical, trade and industrial world.

The program is divided into Day School courses, Extended Day program courses and Trade Extension classes.

Day Courses. Courses offered in the day division, technical in nature, are operated on the semester hour plan. These courses are two years in length and are divided into semesters and summer terms. Upon completion of appropriate units, the student is given credit in terms of semester hours.

Admission to day technological courses is based upon graduation from an accredited high school or upon satisfactory completion of an entrance examination.

Extended Day Program. In the extended day program such courses as Automotive Mechanics and other skilled crafts are offered. Admission is made on a selective basis regardless of the amount of secondary education. If it appears that the prospective student can profit by enrolling in a given course, the director of Vocational Education will usually approve his admission to the course.

Courses offered in the extended day program are on a clock hours basis and grades are given upon the successful completion of each phase of instruction.

Trade Extension Classes. Tyler Junior College, in cooperation with the Texas Education Agency, offers "trade extension" classes. Instruction is given to trade and industrial workers in courses that are designed to teach the workers more about their jobs, and thereby increase their productivity and assure more opportunities for advancement. Any worker may enter a trade extension class if the instruction given is such as will help him in his daily work or fit him for promotion to a better job in the same occupation. Pre-employment training cannot be offered in trade extension classes but all workers are eligible for trade extension classes who are over sixteen years of age and are employed in those trades or industrial pursuits for which supplementary instruction can be given.

Tuition. (Professional Drafting, Petroleum Technology, Surveying, Electronics and Auto Mechanics.)

Tyler Junior College District Residents, $50.00 per semester for a whole or part of a program.

Texas non-district residents, $75.00 per semester for a whole or part of a program.

Non-residents of Texas, $200.00 per semester for a whole or part of a program.

Petroleum Technology

Petroleum Technology. The petroleum technology curriculum is established with the advice and co-operation of employers and workers in the oil fields, to provide preliminary training for workers in various aspects of petroleum development and production. The oil industry requires employees with background for employment in locating, drilling and maintaining wells, and in handling and refining petroleum products.

While scientific background and related information is included in the technology course, major emphasis is upon operation in the oil field, with opportunity for field trips and for employment.

Petroleum technology majors have available to them training in four broad areas: exploration, development, marketing, and construction and maintenance. The two-year program listed below is the pattern suggested for students who plan to enter the petroleum industry in the field of exploration and development.

First Year — First Semester

English 113 — Composition and Rhetoric
Drafting 223
Mathematics 113E — Introductory College Mathematics
Petroleum Development 116

First Year — Second Semester

English 223B — Technical Report Writing
Mathematics 113C — College Algebra
Business Administration 113R — Real Estate Law
Petroleum Development 126

Second Year — Third Semester

Business Administration 113M — Office Machines
Physics 113
Drafting 223 — Map Drafting
Petroleum Production 216

Second Year — Fourth Semester

Mathematics 113B — Trigonometry
Business Administration 213L — Business Law
Speech 113 — Fundamentals of Speech
Petroleum Production 226

Description of Courses

Petroleum Development 116 (3-8) Petroleum geology; map reading and surveying; geophysical prospecting methods; land and lease; derrick construction; types of derricks, masts; well drilling equipment, boilers and steam engines, diesel and gasoline motors.

Petroleum Development 126 (3-8) Rotary drilling equipment, rotary drilling method, rotary drilling problems, circulatory mud control, fishing tools and methods, locating the oil zone, core methods and sample analysis, casing usage, drill-in methods, well completion practice, controlled directional drilling, cable tool drilling, drill stem testing.

Petroleum Production 216 (3-8) Well head connections, tubing the well, pumping equipment, fracturing of flow, artificial flow methods, oil and gas separators, field stock tanks, pumping wells, water problem, sub-surface repairs, sand and lime pressure fracturing, methods and acidizing.

Petroleum Production 226 (3-8) Prime movers and power transmissions in production, treating oil field emulsions, metering systems, reservoir control and pressure maintenance, gauging practices, pipe line methods and problems, fire control systems, secondary recovery methods, well abandonment, natural gas, gasoline plants and oil refineries.

Drafting

First Year — First Semester

Drafting 116 — Mechanical Drawing
Mathematics 113E — Introductory College Mathematics
English 113 — English Composition and Rhetoric
History 213 — United States History

First Year — Second Semester

Drafting 126 — Machine Drawing
Mathematics 113C — College Algebra
Drafting 121 — Material and Processes
English 223B — Technical Report Writing
History 223 — United States History

Summer Session — First Term (6 weeks)

Drafting 113A — Sheet Metal Drawing
Drafting 123A — Mechanical Drawing

Second Year — First Semester

Drafting 216 — Machine Drawing
Speech 113 — Fundamentals of Speech
Government 213 — American Government
Physics 113

Second Year — Second Semester

Drafting 226 — Machine Drawing
or
Drafting 223B — Map Drafting
Government 223 — National and State Government
Drafting 223C — Mathematics of Plane Surveying
Engineering 123 — Descriptive Geometry

Summer Session — First Term (6 weeks)

Drafting 226S — Advanced Specialized Drawing
Drafting 223A — Tool Design

Description of Courses

Drafting 116 — Mechanical Drawing (3-8) This course includes a study of, and some practice in, free hand lettering and free-hand sketching. A thorough study of orthographic projection is made, together with some work in isometric drawing, isometric projection, oblique drawing, oblique projections, cabinet drawing, sections, intersections and developments, revolution, with practice in all of the above named divisions of drawing.

Drafting 126 — Machine Drawing (3-8) Machine drawings of intricate machines and parts of machines including working drawings, sections, and details are executed in this course. Machine screws, bolts and nuts, fasteners, gears, cams, and threads are drawn and studied. Some time is spent on pipe layout and design as applied to industry.

Drafting 113A — Sheet Metal Drawing (2-3) A review of geometric construction, followed by the three divisions of sheet metal patterns of sheet metal lay-out; namely, parallel line developments, radical line developments, and triangulations. For variety, problems of a special nature are included in this course.

Drafting 123A — Mechanical Drawing (3-8) Domestic architectural drawing, architectural lettering, conventional symbols. A complete set of plans for a one-story, five or six room modern frame home or building. The third division consists of perspective, rendering, both in elevation and perspective, specifications, and current cost analysis.

Drafting 121 — Materials and Processes (1-0) Materials, their limitations and usefulness; techniques of processes, their relative importance industrially, and their relation to one another in a complete understanding of the entire manufacturing processes of a machine or part. Emphasis on correct use of a machine or part and on correct use of technological terms.

Drafting 223A — Tool design (2-3) The design of jigs, fixtures, punches, dies, and other special tools of production.

Drafting 216 — Machine Drawing (3-8) Continuation of Drafting 126 with emphasis on product illustration. A study of structural detail and layout is covered. A complete set of drawings is prepared for sample use. Training acquired in these courses is sufficient to adequately prepare draftsmen for industry.

Drafting 226 — Machine Drawing (3-8) A continuation of Drafting 216 with emphasis on isometric drawing, isometric projection, oblique drawing, oblique projection, cabinet drawing, machine fastening, screw threads, bolts and nuts.

Drafting 223 — Map Drafting (2-4) Map Drafting, emphasizing lease maps, township maps, geological maps, pipe lines, etc. For students in technology other than professional drafting.

Drafting 223B — Map Drafting (3-3) Map drafting, emphasizing lettering, symbols, scales, lease maps, township maps, highway maps, pipe line maps, etc.

Drafting 223C — Mathematics of Plane Surveying (3-3) The use and adjustment of surveying instruments, plane surveys with transit and tape; profiles, and cross sections, computation from field notes.

Drafting 226S — Advanced Specialized Drawing A specialized course devoted to intense practice in related subjects pertaining to type of drafting in which the student desires to specialize.

Electronics

First Year — First Semester

English 113 — Composition and Rhetoric
Mathematics 113E — Introductory College Mathematics
Drafting 113 — Mechanical Drawing
Electronics 116L — Electronics

First Year — Second Semester

English 223B — Technical Report Writing
Mathematics 113C — College Algebra
Electronics 123 — Electricity and Magnetism
Electronics 126L — Advanced Electronics

Second Year — First Semester

Electronics 213 — Fundamentals of Radio
Electronics 216L — Electronics
Physics 113
Business Administration 113M — Office Machines

Second Year — Second Semester

Electronics 223
Electronics 226L
Mathematics 113B — Trigonometry
Speech 113

Description of Courses

Drafting 113 — Mechanical Drawing (2-4) A beginning course designed to teach the student the basic fundamentals and principles of drafting and the correct practices and procedures. Combined lecture and laboratory six hours a week.

Electronics 116L — Electronics (3-8) The phenomena of electronics; thermionic emission; photoelectric emission; field emission; the theory of metalic conductors; contact potential; electrical discharge in gases; electron tubes and their applications; the construction and operation of vacuum tube amplifiers and oscillators.
Electronics 126L — Advanced Electronics (3-8) Electronics in metals and in semi-conductors; thermionic, photoelectric and field emission of electrons; applications of vacuum tubes and transis-

tors to feedback amplifiers; frequency-selective amplifiers, oscillators, modulation systems, and special electronic instruments; ultra-high frequency electronics; magnetic amplifiers.

Electronics 123 — Electricity and Magnetism (6-0) (2-4) Coulomb's law, the electric field, Gauss law, ohmic and non-ohmic conductors, electric instruments, circuits, Kirchoff's law, magnetism, the magnetic field, electromagnetic induction, alternating currents.

Electronics 213 — Fundamentals of Radio (2-4) Electric circuits, vacuum tube characteristics. Vacuum tube circuits, radio receiving and transmitting systems.

Electronics 216L — Electron Tubes and Amplifying Circuits (3-8) A study of both high vacuum and gas filled tubes and their application to radio and television. Course includes detailed studies of thermionic emission, the various vacuum tubes, gas tubes, cathode ray tubes, rectifiers, voltage amplifiers, and power amplifiers. Discussed more briefly are oscillators, modulators, detectors, and wave shaping circuits. Principles of radar are discussed.

Electronics 223 — Electrical Measurements at High Frequencies (2-4) Introduction to fundamental measurement methods and instruments in the VHF, UHF, and microwave regions. Impedance, power frequency, and wavelength measurements. Open-wire, coaxial, and waveguide transmission lines. An experimental study of the high frequency triode, klystron and magnetron.

Electronics 226L — Advanced Electronic Circuits (3-8) Electron devices and circuits as applied in computing, measuring, and timing instruments. This laboratory is planned so as to allow the student some choice regarding the type of work project.

Surveying

First Year — First Semester

Surveying 116 — Elementary Surveying
Cartography 123 — Elementary Mapping
English 113 — Composition and Rhetoric
Mathematics 113E — Introductory College Mathematics

First Year — Second Semester

Surveying 216 — Plane Surveying
English 223B — Technical Report Writing
Mathematics 113C — College Algebra
Business Administration 113R — Real Estate Law

Second Year — First Semester

Surveying 216 — Plane Surveying
Business Administration 113M — Office Machines
Drafting 223 — Map Drafting
Physics 113

Second Year — Second Semester

Surveying 226 — Route Surveying
Business Administration 213L — Business Law
Mathematics 113B — Trigonometry
Speech 113 — Fundamentals of Speech

Description of Courses

Surveying 116 — Elementary Surveying (3-8) History of land surveyings; care and adjustment of surveying instruments; land surveying; traverses; leveling; notekeeping; computation; and precision.

Cartography 123 — Elementary Mapping (2-4) Elementary cartography. The theory of map projections, scale changing and conversion factors. The construction of topographic maps and orthographic projections of small areas. Map interpretation. The plotting of traverses, contours, and details from the surveyor's field notes.

Surveying 126 — Plane Surveying (3-8) Use and care of instruments; notekeeping; distance measurements; traverse suveying; areas; angles and elevations; leveling; profile cross sections; legal principles; dendrology.

Surveying 216 — Plane Surveying (3-8) Plane-table and transit methods for topographic map production; field problems related to highway surveying; circular and vertical curves; earthwork, volumes and cost estimates; triangulation and base lines.

Surveying 226 — Route Surveying (3-8) Theory and practical application of simple, reverse, and compound curves; spirals and earthwork; right-of-way; cross sections; and estimates.

Auto Mechanics

Automobile Maintenance equips students to take jobs in the automobile repair and maintenance industry or to operate their own garages and shops.

Theory and practice in the functions of all parts to familiarize the student with the repair and overhaul of the entire

automobile assembly. Fundamentals of the internal combustion engine, electrical data, knowledge of maintenance charts, lubrication and the development of power rating are stressed. The student is also taught spray painting, brazing, welding and the reconditioning of the automotive body.

In the last section of this course an intensive study is made of designs, construction, nomenclature and maintenance of trucks and tractors.

First Year — First Semester

Auto Mechanics 113 — Engine Theory
Auto Mechanics 116L — Engine Laboratory
English 113 — Composition and Rhetoric
Mathematics 113E — Introductory College Mathematics

First Year — Second Semester

Auto Mechanics 123 — Transmissions
Auto Mechanics 126L Transmissions Laboratory
English 223B — Technical Report Writing
Mathematics 113C — College Algebra

Second Year — First Semester

Auto Mechanics 213 — Tune-Up
Auto Mechanics 216L — Tune-Up Laboratory
Physics 113
Business Administration 113M — Office Machines

Second Year — Second Semester

Auto Mechanics 223 — Motors, Generators, and Electrical Systems
Auto Mechanics 226L — Motors, Generators, and Electrical Systems Laboratory
Speech 113
Business Administration 113L — Business Law

Description of Courses

Auto Mechanics 113 — Engine Theory (2-4) A general overhauling of internal combustion engines, close correlation between the actual maintenance and technical information, the theory of combustion mechanisms, assembly, testing equipment, cleaning, nomenclature, safety, and the fundamentals of the two and four stroke engines.

Auto Mechanics 116L — Engine Laboratory (3-11) A general overhauling of engine blocks, involving valve grinding, valve seat-

ing, cylinder boring, piston installation and a check of work performed with a precision instrument for accuracy specified in the service manual.

Auto Mechanics 123 — Transmissions (2-4) A study of types of transmissions, fluid drive units, power flow through transmissions, hydramatic, dyna-flow, hydraulic control circuits and mechanisms for automatic transmissions.

Auto Mechanics 126L — Transmissions Laboratory (3-11) Laboratory work on hydramatic, dyna-flow or power drive transmission to present general construction details, operating details, assembly and adjustment procedures. A study is made of the flow of power through fluid units and planetary gear sets of automatic transmissions.

Auto Mechanics 213 — Tune-Ups (2-4) The theory, function and nomenclature of the electrical, fuel and carburetion systems. Introduction to scientific automotive testing equipment. A study is made of carburetors, air cleaners, fuel supply systems, control systems. The ignition system includes a study of condensers, ignition coil and switches, distributors and spark plugs.

Auto Mechanics 216L — Tune-Up Laboratory (3-11) Methods of using and caring for testing equipment. Use of equipment in engine diagnosis. Modern testing equipment is used. This course consists of the installation and adjustment of carburetors, removing and replacement of air cleaners, overhauling, repairing and testing fuel pumps, adjusting and controlling throttles, spark controls and servicing starter control relays.

Auto Mechanics 223 — Motors, Generators, Electrical Systems (2-4) Explanation and demonstration of the operating principles of starting motors, generators and controls, lighting systems and battery. Checking fields, armature and brush holders. Testing of relays and batteries.

Auto Mechanics 226L — Motors, Generators, Electrical Systems Laboratory (3-11) The installation of starting motors, repair and replacement of Bendix assemblies, turning down and undercutting commutators, repairing and replacing battery indicators, repairing wiring and locating shorts or open circuits. Testing ignition units with electric analyzer.

TYLER JUNIOR COLLEGE

TYLER, TEXAS

MUSIC DEPARTMENT

(Accredited by The Texas Association

of Music Schools as the

TEXAS EASTERN SCHOOL OF MUSIC

of Tyler Junior College)

DEPARTMENT OF MUSIC
OF
TYLER JUNIOR COLLEGE

Fully Approved by the Texas Association of Music Schools (as the Texas Eastern School of Music)

★

FACULTY

Joseph Kirshbaum ..... Head of the Department of Music, Conductor of the East Texas Regional Symphony Orchestra —Theory, Violin

Edwin Fowler ..... Clarinet

Lawrence Birdsong ..... Organ

Gertrude Kirshbaum ..... Harp

John R. Hunter ..... Choral Music, Voice

Paul Cox ..... Trumpet, Other Brass Instruments

Robert Reynolds ..... Piano

Pinckney Nance Ferrell ..... Piano

★

DEPARTMENT OF MUSIC

The department of music offers instruction in music for students who:

(1) Plan to pursue a professional career in music.

(2) Desire a cultural background in music.

Courses include individual lessons in Applied Music, class work in Theory and Music Literature and ensemble training in musical organizations. The work is designed to meet requirements of a standard four-year music curricula.

The Department of Music is fully approved and accredited by the Texas Association of Music Schools, holding full membership in that association as the Texas Eastern School of Music. This assures the acceptance at full value of credit earned.

CURRICULUM FOR MUSIC MAJORS

Bachelor of Music Degree

Freshman Year

Music 113T, 123T	6 hours
Music 113L, 123L,	6 hours
Applied Music	8 hours
Musical Organizations	2 hours
English 113, 123	6 hours
Electives	6 hours

Sophomore Year

Music 213T, 223T	6 hours
Music 212T, 222T	4 hours
Applied Music	8 hours
Musical Organizations	2 hours
English 213, 223	6 hours
Electives	6 hours

GENERAL INFORMATION

Music majors who have had no previous training in piano are required to take sufficient instruction to pass a proficiency examination in piano.

All music majors are required to participate in at least one musical organization.

The attendance of music majors is expected at all concerts by the Department of Music.

Ample opportunity is provided for individual student performance through both studio and public recitals.

Students are encouraged to use special music library materials which include numerous books, reference works, periodicals, music scores and a record collection embracing examples of all styles and forms of music.

Regular students (full time) majoring in fields other than music may enroll in music courses for which they are qualified.

Special students (part time) may enroll for Applied Music or other courses in the School of Music.

Students desiring to earn an Associate in Arts degree from this college or a Bachelor's degree from a state supported institution should elect six hours of American History and 6 hours of Government.

Music Tuition Per Semester

Individual Lessons:	Regular Students Who Enroll for 12 Sem. Hours or More		Special Students Who Enroll for Music Only	
	One 30-min. Lesson Per Week	Two 30-min. Lessons Per Week	One 30-min. Lesson Per Week	Two 30-min Lessons Per Week
Piano	$54.00	$75.00	$72.00*	$126.00*
Voice	54.00	75.00	72.00*	126.00*
Violin, Violincello	54.00	75.00	72.00*	126.00*
Harp	54.00	75.00	72.00*	126.00*
Clarinet	54.00	75.00	72.00*	126.00*

Piano Pedagogy (One two-hour session per week) $30.00

Voice Diction (One hour per week) 18.00

Practice Room (Four hours per week) 4.00

* Includes $17.50 tuition plus special music fee.

Preparatory work in Applied Music is offered for beginning students and for students not sufficiently advanced to meet requirements for music major courses. College level students enrolling in preparatory courses may receive credit as follows:

(1) One hour credit; one half-hour lesson, 6 hours practice weekly.

(2) Two hours credit; two half-hour lessons, 10 hours practice weekly.

College Level Credit. The amount of credit is dependent upon the amount of laboratory hours per week decided upon at registration.

Credit in Strings, Woodwinds, Piano and Brasses. One semester hour credit requires six hours laboratory per week.

Two semester hours credit requires ten hours laboratory per week.

Three semester hours credit requires thirteen hours laboratory per week.

Four semester hours credit requires sixteen hours laboratory per week.

Credit in Voice. One semester hour credit requires six hours of laboratory per week.

Two semester hours credit requires nine hours of laboratory per week.

Three semester hours credit requires twelve hours of laboratory per week.

Musical Organizations. All students are eligible to audition for membership in the various musical organizations sponsored by the Department of Music.

Special Regulations. Regular and punctual attendance is required at all class sessions, musical organization rehearsals, individual lessons and other services for which the student has registered. Absence will not be excused for any reason other than illness. Unexcused absences will lower the final grade in the course concerned.

Individual lessons will not be made up in the case of unexcused absences. Students who must miss a lesson because of illness are required to notify their instructors at least one hour before the scheduled lesson in order to ask for a make-up lesson.

Students electing applied music courses for credit are required to fill out a repertoire sheet and to perform for a faculty committee each semester.

Applied music students shall consult with their instructors before participating in any public performance.

COURSE DESCRIPTIONS

Applied Music

Music 111PP, 121PP, 211PP, 221PP—Preparatory Piano. Elements of piano-forte playing; instruction material and exercices according to individual needs; from simple forms of scales and arpeggios; selected compositions from Bach, Beethoven, Clementi, Handel, Haydn, Kuhlau, Mozart, Schumann and others.

Admission by examination.

Music 114P, 124P—Freshman Piano. Major and minor scales and arpeggios studies from Cramer, Czerny, Bach. Three Part Inventions, French Suites, Mozart; Beethoven sonatas of moderate difficulty; suitable selections from Chopin, other composers of the romantic school.

Admission by examination. Two half-hour lessons and 16 hours minimum practice weekly.

Music 214P, 224P—Sophomore Piano. Major and minor scales and arpeggios in all forms and rhythms; studies from Clementi, Czerny, Phillip, Bach, Well-tempered Clavichord, English Suites; Beethoven sonatas, Op. 2, Op. 10, Op. 26; allegro movement

of a concerto; selected compositions from Chopin, Debussy, Mendelssohn, Schubert, etc.

Prerequisite: Completion of Freshman Piano or equivalent. Two half-hour lessons and 16 hours minimum practice weekly.

Music 314P, 324P—Advanced Piano. Major and minor scales in parallel and contrary motion, octaves, tenths, sixths, and double-thirds; all forms of broken chords; Bach Preludes and Fugues; Beethoven Sonatas, suitable concertos and concert repertoire; student required to play half-hour recital.

Prerequisite: Completion of Sophomore Piano or its equivalent. Two half-hour lessons and 18 hours minimum practice.

Music 111PVc, 121PVc, 211PVc, 221PVc—Preparatory Violincello. Establishment of position; selected studies from Dotzauer, Grutzmacher, and others; appropriate solos. Admission by examination.

Music 111PBv, 121PBv, 211PBv, 221PBv—Preparatory Bass Viol. Establishment of position; studies from Simandl, Book I; scales and bowing exercises.

Admission by examination.

Music 111PH, 121PH, 211PH, 221PH—Preparatory Harp. Development of basic position; the principles of pedaling; coordination of hand and foot action; Salzedo, Method for the Harp, Tiny Tales (Series I and II), Short Stories (Volume I and II); pieces by Bach, Rameau, Schumann, Thomas and others.

Admission by examination.

Music 111PVi, 121PVi, 112PVi, 122PVi, 212PVi, 222PVi—Preparatory Violin. Principles and establishment of good position; simple scales and arpeggios; exercises from Auer, Kayser, Laoureaux, Sevcik, Wohlfhart; suitable selections from Bach, Beethoven, Corelli, Faure, Handel, Mozart, Vivaldi, and others.

Admission by examination.

Freshman Strings

Music 114Vi, 124Vi—Freshman Violin

Music 114Vc, 124Vc—Freshman Violincello

Music 114BV, 124BV—Freshman Bass Viol

Music 114H, 124H—Freshman Harp

All form of scales and arpeggios in extended range. Selected study material emphasizing various legato and staccato styles; selected solos from the classic and romantic schools of composition. Admission by examination.

Sophomore Strings

Music 214Vi, 224Vi—Sophomore Violin

Music 214Vc, 224Vc—Sophomore Violincello

Music 214BV, 224BV—Sophomore Bass Viol

Music 214H ,224H—Sophomore Harp

Three and four octave scales and arpeggios in various rhythms; selected advanced study material; suitable solos from classic, romantic and contemporary composers including works in the larger forms; ensemble literature.

Prerequisite: Completion of freshman strings or its equivalent.

Voice

Music 113Vo, 123Vo—Freshman Voice. Elements of vocal culture—breath control, voice production, pure vowels, consonants; scales and arpeggios; vocalises—Concone, Panofka, Vaccai; the simpler songs in English and Italian.

Admission by examination.

Music 111D, 121D—Voice Diction. Systematic presentation of the fundamentals of pronunciation and sound production to further the singing of text with clarity and ease in German and Italian.

Admission by examination. Required of all voice majors. One hour per week.

Music 213Vo, 223Vo—Sophomore Voice. Technical development —the sustained tone of the old Italian bel canto, roulades, runs and trills; the simple opera and oratorio arias of Gluck, Handel, Mozart, Scarlatti; beginnings of German Lieder, English and American songs.

Prerequisite: Completion of Freshman Voice or equivalent.

Music 211D, 221D—Advanced Voice Diction. Continuation of Music 121D; practical application in advanced song, oratorio and opera, including French and English.

Prerequisite: Music 121D. Required of all voice majors. One hour per week.

Organ

Music 114Or, 124Or—Freshman Organ. Studies—Gleason, Method of Organ Playing; Dickison, The Art and Technique of Organ Playing; Nilsen, Pedal Studies; compositions—Bach, Eight Little Preludes and Fugues; Guilmant, Sonata in C; others.

Prerequisite: Music 212P or its equivalent. Two half-hour lessons and 16 hours minimum practice weekly.

Music 214Or, 224Or—Sophomore Organ. Continuation of studies from Gleason, Dickison, Nilsen; Carl, Master Studies for Organ; compositions by Bach, Mendelssohn, Widor, and others.

Prerequisite: Music 124Or or its equivalent. Two half-hour lessons and 16 hours minimum practice weekly.

Woodwinds

Music 112C, 122C, 212C, 222C—Preparatory Clarinet. Principles of posture, embouchure, articulation; elementary scales and arpeggios; graded studies and duets; selected simple pieces.

Admission by examination.

Music 114C, 124C—Freshman Clarinet. Etudes by Klose and Lazarus; major and minor scales, solos and duets.

Admission by examination. Two half-hour lessons and 16 hours minimum practice weekly.

Music 214C, 224C—Sophomore Clarinet. Etudes by Langenus, Lazarus, Rose, and Voxman; major and minor scales, orchestral studies; transpositions; solo and ensemble literature.

Prerequisite: Completion of Freshman Clarinet or equivalent. Two half-hour lessons and 16 hours minimum practice weekly.

Music 112S, 122S—Freshman Saxophone. Chromatic scales, all major and minor scales and arpeggios. Studies equivalent to Calliet Method, Book II; Rubank, Selected Studies, Klose-Derigny. Complete Method. Representative Solos.

Prerequisite: Admission by examination. Two half-hour lessons and 10 hours minimum practice weekly.

Music 212S, 222S—Sophomore Saxophone. Chromatic scales, all major and minor scales and arpeggios. Studies equivalent to Ferling, 48 Etudes, Rubank, Selected Studies; Klose-Derigny, Complete Method. Representative Solos.

Prerequisite: Music 122S or the equivalent. Two half-hour lessons and 10 hours minimum practice weekly.

Brass Instruments

Music 111PTb, 121PTb, 211PTb, 221PTb—Preparatory Trombone.

Music 111PTp, 121PTp, 211PTp, 221PTp—Preparatory Trumpet.

Music 111PTTu, 121PTu, 211PTu, 221PTu—Preparatory Tuba.

Principles of tone production, formation of embouchure, basic articulations; selected studies and solos.

Admission by examination.

Music 114Tb, 124Tb—Freshman Trombone

Music 114Tp, 224Tp—Freshman Trumpet

Music 114Tu, 124Tu—Freshman Tuba

Major, minor and chromatic scales; extended arpeggios; selected studies, solos and duets; principles of phrasing and dynamic control. Admission by examination.

Music 214Tb, 224Tb—Sophomore Trombone

Music 214Tp, 224Tp—Sophomore Trumpet

Music 214Tu, 224Tu—Sophomore Tuba

All forms of scales and arpeggios in extended register with various articulations; selected advanced study material; representative solos including a sonata or concerto; duets, band and orchestra literature.

Prerequisite: Completion of freshman brass or its equivalent.

Theory of Music

Music 113L, 123L—Introduction to Music (2-3). A general survey of the development of the art of music designed to provide a basic understanding of the principal periods and styles of music literature; origins, folk music, plainsong, vocal and instrumental form, elementary acoustics, biographical sketches and bibliography.

No prerequisites; open to non-music majors. Required of music majors.

Music 113T, 123T—Elementary Harmony (3-2). The study of chord building and chord connection including practice in ear training and keyboard harmony; triads and their inversions, cadences, modulations to related keys, simple non-harmonic tones, seventh chords, original part-writing exercises, melodic and harmonic diction, sight-seeing.

Prerequisite: Ability to read simple music notation. Required of music majors. Chorus is required of all elementary harmony enrollees.

Music 212T, 222T—Diction and Sight Singing (2-1). Melodic, rhythmic, harmonic, and contrapuntal diction; sight-singing, including the clefs, and simple modulation. Music 213T, 223T must be taken concurrently. Prerequisite: Music 123T. Required of all music majors.

Music 213T, 223T—Advanced Harmony (3-2). A further study of harmony and an introduction to counterpoint; the ninth, eleventh and thirteenth chords, chromatically altered chords, modulation to distant keys, the decorative material of harmony; a survey of the five species, Music 212T, 222T must be taken concurrently.

Prerequisite: Music 123T. Required of music majors. Chorus is required of all advanced harmony enrollees.

MUSICAL ORGANIZATIONS

Band

Music 111B, 121B

Music 211B, 221B

The official Apache Band, open to any student who has had suitable training. Three hours per week.

Chorus

Music 111Ch, 121Ch

Music 211Ch, 221Ch

A chorus in choral singing organized for the purpose of becoming familiar with the more important works of vocal ensemble. Open to all students by audition. Three hours per week.

Symphony Orchestra

Music 1130, 1230

Music 2130, 2230

Open to advanced instrumental students. Members are given practical training in professional orchestral routine in the East Texas Symphony Orchestra.

Admission by audition. Four hours per week.

Music 211CM, 221CM — Chamber Music Qualified students are encouraged to become intimately acquainted with the master

works of chamber music. Small groups are formed to study the standard literature for various combinations ranging from duos to octets. Admission by audition. Two hours per week.

Harp Ensemble

Music 111HE, 121HE

Music 211HE, 221HE

Designed to increase reading proficiency and to further musicianship through group performance; this course is required of all music majors specializing in Harp. Open to others by audition. Two hours per week.

INDEX

Page

Accrediting of the College 12
Activities 23-24
Administration 4
Admission Requirements 12
Adult Education 16
Apache, College Yearbook 23
Apache Belles 23
Athletics 23
Attendance Requirements 12
Band 23
Business Administration, Courses in .. 14, 25, 30, 31, 34, 35, 36, 37
Calendar, College Year 1960-61 2
Choir 23-73
Counseling 13
Course Descriptions —
- Agriculture 32-33
- Art 33
- Auto Mechanics 60-61-62
- Bible 33-34
- Biology 34
- Business Administration 34-35-36-37
- Chemistry 38
- Distributive Education 50
- Drafting 56-57-58
- Economics 38
- Education 38
- Electronics 58-59
- Engineering 38-39
- English 39-40
- Foreign Language 40
- Geology 40-41
- Geometry 44
- Geography 41
- Government 41-42
- History 42
- Home Economics 42-43
- Journalism 43
- Laboratory Technology 43
- Mathematics 43-44-45
- Mechanical Drawing 56-57-58
- Music Catalogue 65-74
- Music Courses 66-74
- Nurses Training, Courses in 45-46

INDEX

Page

- Petroleum Technology ... 54-55
- Pharmacology ... 47
- Physical Education ... 47
- Physics ... 47-48
- Psychology ... 48-49
- Sociology ... 49
- Speech ... 49-50
- Surveying ... 59-60
- Television ... 58-59
- X-Ray Technology ... 50

Courses, Numbering of ... 15-16
Courses, Suggested for Freshmen ... 24, 25, 26, 27, 28, 29, 30, 31
Credit, Explanation of ... 15-16
Degrees
- Associate in Arts ... 13-14
- Associate in Business Administration ... 14
- Associate in Engineering ... 14
- Associate in Science ... 14

Drafting ... 55-56-57-58
Faculty ... 5-6-7-8-9-10-65
Grading System ... 13
Graduation Requirements ... 13-14
History of Tyler Junior College ... 11
Library, Description of ... 16
Music Majors, Curriculum ... 66
Night School, The Evening College ... 16
Nursing Program, Registered ... 27-28-29
Objectives of the College ... 12
Proficiency Certificates ... 14
Reports to Parents ... 13
Refunds ... 18-19
Scholarships, Awards, Loan Funds ... 19-20-21-22
Social Activities ... 24
Student Council ... 24
Student Load ... 16
Student Organizations ... 23-24
Summer Session ... 2
Texas Eastern School of Music ... 65-74
Technical and Industrial Division ... 53-62
Transfer of Credit ... 16
Tuition and Fees ... 17-18-19-54-67
Vocational Rehabilitation ... 22

STORY-WRIGHT — TYLER